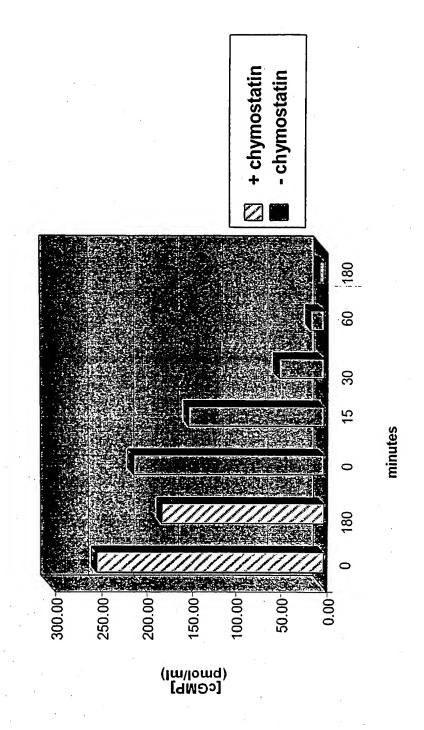
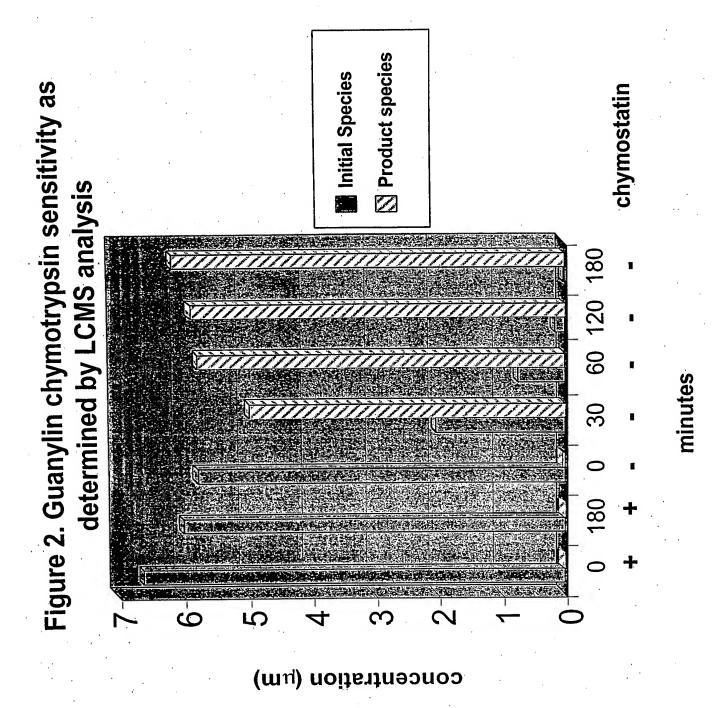
Figure 1. Guanylin chymotrypsin sensitivity as determined by cGMP assay





```
Pro Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
Human Guanylin (SEQ ID NO: )
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
--- --- Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                 (SEQ ID NO:
--- --- Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
--- --- Cys --- Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
--- --- Cys Gly --- Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                 (SEQ ID NO:
--- --- Cys Gly Glu --- Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
--- --- Cys Gly Glu Ile Cys --- Tyr Ala Ala Cys Thr Gly Cys
--- --- Cys Gly Glu Ile Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
--- --- Cys Gly Glu Ile Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
--- --- Cys Gly Glu Ile Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
--- --- Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
                                                                 (SEQ ID NO:
--- --- Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
--- Thr Cys --- Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
--- --- Thr Cys --- --- Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
--- Thr Cys --- Glu --- Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
--- --- Thr Cys --- Glu Ile Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
--- --- Thr Cys --- Glu Ile Cys Ala --- Ala Ala Cys Thr Gly Cys
--- --- Thr Cys --- Glu Ile Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
--- --- Thr Cys --- Glu Ile Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
--- --- Thr Cys --- Glu Ile Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
                                                                 (SEQ ID NO:
--- Thr Cys --- Glu Ile Cys Ala Tyr Ala Ala Cys Thr --- Cys
--- --- Thr Cys Gly --- Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
--- --- Thr Cys Gly --- --- Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                 (SEQ ID NO:
--- Thr Cys Gly --- Ile Cys --- Tyr Ala Ala Cys Thr Gly Cys
--- --- Thr Cys Gly --- Ile Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                 (SEQ ID NO:
--- --- Thr Cys Gly --- Ile Cys Ala Tyr --- Ala Cys Thr Gly Cys
--- --- Thr Cys Gly --- Ile Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
--- --- Thr Cys Gly --- Ile Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
--- --- Thr Cys Gly --- Ile Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
--- --- Thr Cys Gly Glu --- Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                 (SEQ ID NO:
--- --- Thr Cys Gly Glu --- Cys --- Tyr Ala Ala Cys Thr Gly Cys
--- --- Thr Cys Gly Glu --- Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
--- --- Thr Cys Gly Glu --- Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
--- --- Thr Cys Gly Glu --- Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
                                                                (SEQ ID NO:
--- Thr Cys Gly Glu --- Cys Ala Tyr Ala Ala Cys --- Gly Cys
--- --- Thr Cys Gly Glu --- Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
                                                                 (SEQ ID NO:
--- --- Thr Cys Gly Glu Ile Cys --- Tyr Ala Ala Cys Thr Gly Cys
--- --- Thr Cys Gly Glu Ile Cys --- --- Ala Ala Cys Thr Gly Cys
                                                                                )
                                                                 (SEQ ID NO:
--- Thr Cys Gly Glu Ile Cys --- Tyr --- Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                 (SEQ ID NO:
                                                                                )
--- Thr Cys Gly Glu Ile Cys --- Tyr Ala --- Cys Thr Gly Cys
                                                                                )
--- --- Thr Cys Gly Glu Ile Cys --- Tyr Ala Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
--- --- Thr Cys Gly Glu Ile Cys --- Tyr Ala Ala Cys Thr --- Cys
                                                                                )
                                                                 (SEQ ID NO:
--- --- Thr Cys Gly Glu Ile Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
                                                                                )
                                                                 (SEQ ID NO:
--- --- Thr Cys Gly Glu Ile Cys Ala --- --- Ala Cys Thr Gly Cys
```

FIG. 3 (sheet 1 of 17)

```
--- --- Thr Cys Gly Glu Ile Cys Ala --- Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
--- --- Thr Cys Gly Glu Ile Cys Ala --- Ala Ala Cys --- Gly Cys
--- Thr Cys Gly Glu Ile Cys Ala --- Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
--- --- Thr Cys Gly Glu Ile Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
--- --- Thr Cys Gly Glu Ile Cys Ala Tyr --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
--- --- Thr Cys Gly Glu Ile Cys Ala Tyr --- Ala Cys --- Gly Cys
--- Thr Cys Gly Glu Ile Cys Ala Tyr --- Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
--- --- Thr Cys Gly Glu Ile Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
--- Thr Cys Gly Glu Ile Cys Ala Tyr Ala --- Cys --- Gly Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
--- --- Thr Cys Gly Glu Ile Cys Ala Tyr Ala --- Cys Thr --- Cys
--- --- Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
--- --- Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys --- --- Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
--- --- Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr --- Cys
--- Gly --- Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
--- Gly --- Cys --- Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
--- Gly --- Cys --- -- Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
--- Gly --- Cys --- Glu --- Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
--- Gly --- Cys --- Glu Ile Cys --- Tyr Ala Ala Cys Thr Gly Cys
--- Gly --- Cys --- Glu Ile Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
--- Gly --- Cys --- Glu Ile Cys Ala Tyr --- Ala Cys Thr Gly Cys
--- Gly --- Cys --- Glu Ile Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
--- Gly --- Cys --- Glu Ile Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
--- Gly --- Cys --- Glu Ile Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
--- Gly --- Cys Gly --- Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
--- Gly --- Cys Gly --- --- Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
--- Gly --- Cys Gly --- Ile Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
--- Gly --- Cys Gly --- Ile Cys Ala --- Ala Ala Cys Thr Gly Cys
--- Gly --- Cys Gly --- Ile Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
--- Gly --- Cys Gly --- Ile Cys Ala Tyr Ala --- Cys Thr Gly Cys
--- Gly --- Cys Gly --- Ile Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
--- Gly --- Cys Gly --- Ile Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly --- Cys Gly Glu --- Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
--- Gly --- Cys Gly Glu --- Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
--- Gly --- Cys Gly Glu --- Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                                 )
--- Gly --- Cys Gly Glu --- Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
--- Gly --- Cys Gly Glu --- Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
--- Gly --- Cys Gly Glu --- Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                                 )
                                                                  (SEQ ID NO:
                                                                                 )
                                                                  (SEQ ID NO:
--- Gly --- Cys Gly Glu --- Cys Ala Tyr Ala Ala Cys Thr --- Cys
--- Gly --- Cys Gly Glu Ile Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
--- Gly --- Cys Gly Glu Ile Cys --- --- Ala Ala Cys Thr Gly Cys
                                                                                 )
                                                                  (SEQ ID NO:
--- Gly --- Cys Gly Glu Ile Cys --- Tyr --- Ala Cys Thr Gly Cys
--- Gly --- Cys Gly Glu Ile Cys --- Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly --- Cys Gly Glu Ile Cys --- Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly --- Cys Gly Glu Ile Cys --- Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly --- Cys Gly Glu Ile Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly --- Cys Gly Glu Ile Cys Ala --- --- Ala Cys Thr Gly Cys
                                                                                 )
                                                                  (SEQ ID NO:
--- Gly --- Cys Gly Glu Ile Cys Ala --- Ala --- Cys Thr Gly Cys
```

FIG. 3 (sheet 2 of 17)

```
--- Gly --- Cys Gly Glu Ile Cys Ala --- Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
--- Gly --- Cys Gly Glu Ile Cys Ala --- Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
--- Gly --- Cys Gly Glu Ile Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly --- Cys Gly Glu Ile Cys Ala Tyr --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly --- Cys Gly Glu Ile Cys Ala Tyr --- Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
--- Gly --- Cys Gly Glu Ile Cys Ala Tyr --- Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
--- Gly --- Cys Gly Glu Ile Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly --- Cys Gly Glu Ile Cys Ala Tyr Ala --- Cys --- Gly Cys
                                                                  (SEQ ID NO:
--- Gly --- Cys Gly Glu Ile Cys Ala Tyr Ala --- Cys Thr --- Cys
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly --- Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
--- Gly --- Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys --- --- Cys
                                                                                 )
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly --- Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly Thr Cys --- Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
--- Gly Thr Cys --- -- Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
--- Gly Thr Cys --- --- Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly Thr Cys --- --- Ile Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly Thr Cys --- --- Ile Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
--- Gly Thr Cys --- --- Ile Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
                                                                                 )
--- Gly Thr Cys --- --- Ile Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
--- Gly Thr Cys --- --- Ile Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
--- Gly Thr Cys --- --- Ile Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
                                                                                 )
                                                                                 )
--- Gly Thr Cys --- Glu --- Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
--- Gly Thr Cys --- Glu --- Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
                                                                                 )
--- Gly Thr Cys --- Glu --- Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly Thr Cys --- Glu --- Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
--- Gly Thr Cys --- Glu --- Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                                 )
                                                                  (SEQ ID NO:
--- Gly Thr Cys --- Glu --- Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly Thr Cys --- Glu --- Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
                                                                                 )
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly Thr Cys --- Glu Ile Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                                 )
--- Gly Thr Cys --- Glu Ile Cys --- Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
--- Gly Thr Cys --- Glu Ile Cys --- Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly Thr Cys --- Glu Ile Cys --- Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly Thr Cys --- Glu Ile Cys --- Tyr Ala Ala Cys --- Gly Cys
--- Gly Thr Cys --- Glu Ile Cys --- Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly Thr Cys --- Glu Ile Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly Thr Cys --- Glu Ile Cys Ala --- --- Ala Cys Thr Gly Cys
--- Gly Thr Cys --- Glu Ile Cys Ala --- Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly Thr Cys --- Glu Ile Cys Ala --- Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
                                                                                 )
--- Gly Thr Cys --- Glu Ile Cys Ala --- Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
--- Gly Thr Cys --- Glu Ile Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
                                                                  (SEQ ID NO:
--- Gly Thr Cys --- Glu Ile Cys Ala Tyr --- Cys Thr Gly Cys
                                                                                 )
                                                                                 )
--- Gly Thr Cys --- Glu Ile Cys Ala Tyr --- Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
--- Gly Thr Cys --- Glu Ile Cys Ala Tyr --- Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
                                                                                 )
                                                                                 )
--- Gly Thr Cys --- Glu Ile Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly Thr Cys --- Glu Ile Cys Ala Tyr Ala --- Cys --- Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly Thr Cys --- Glu Ile Cys Ala Tyr Ala --- Cys Thr --- Cys
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly Thr Cys --- Glu Ile Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
```

FIG. 3 (sheet 3 of 17)

```
--- Gly Thr Cys --- Glu Ile Cys Ala Tyr Ala Ala Cys ---- Cys
                                                                  (SEQ ID NO:
--- Gly Thr Cys --- Glu Ile Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
--- Gly Thr Cys Gly --- Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
                                                                                 )
--- Gly Thr Cys Gly --- --- Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly Thr Cys Gly --- --- Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
--- Gly Thr Cys Gly --- --- Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
--- Gly Thr Cys Gly --- --- Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly Thr Cys Gly --- --- Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
--- Gly Thr Cys Gly --- --- Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly Thr Cys Gly --- --- Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
--- Gly Thr Cys Gly --- Ile Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly Thr Cys Gly --- Ile Cys --- --- Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
--- Gly Thr Cys Gly --- Ile Cys --- Tyr --- Ala Cys Thr Gly Cys
--- Gly Thr Cys Gly --- Ile Cys --- Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
--- Gly Thr Cys Gly --- Ile Cys --- Tyr Ala Ala Cys --- Gly Cys
                                                                                 )
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
                                                                                 )
--- Gly Thr Cys Gly --- Ile Cys --- Tyr Ala Ala Cys Thr --- Cys
--- Gly Thr Cys Gly --- Ile Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
--- Gly Thr Cys Gly --- Ile Cys Ala --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
--- Gly Thr Cys Gly --- Ile Cys Ala --- Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
--- Gly Thr Cys Gly --- Ile Cys Ala --- Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
--- Gly Thr Cys Gly --- Ile Cys Ala --- Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
--- Gly Thr Cys Gly --- Ile Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
--- Gly Thr Cys Gly --- Ile Cys Ala Tyr --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
--- Gly Thr Cys Gly --- Ile Cys Ala Tyr --- Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
--- Gly Thr Cys Gly --- Ile Cys Ala Tyr --- Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
--- Gly Thr Cys Gly --- Ile Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
--- Gly Thr Cys Gly --- Ile Cys Ala Tyr Ala --- Cys --- Gly Cys
--- Gly Thr Cys Gly --- Ile Cys Ala Tyr Ala --- Cys Thr --- Cys
                                                                  (SEQ ID NO:
                                                                   (SEQ ID NO:
--- Gly Thr Cys Gly --- Ile Cys Ala Tyr Ala Ala Cys --- Gly Cys
--- Gly Thr Cys Gly --- Ile Cys Ala Tyr Ala Ala Cys --- --- Cys
                                                                   (SEQ ID NO:
--- Gly Thr Cys Gly --- Ile Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                   (SEQ ID NO:
                                                                   (SEQ ID NO:
--- Gly Thr Cys Gly Glu --- Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                   (SEQ ID NO:
--- Gly Thr Cys Gly Glu --- Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                                  )
--- Gly Thr Cys Gly Glu --- Cys --- --- Ala Ala Cys Thr Gly Cys
                                                                   (SEQ ID NO:
--- Gly Thr Cys Gly Glu --- Cys --- Tyr --- Ala Cys Thr Gly Cys
                                                                   (SEQ ID NO:
                                                                   (SEQ ID NO:
--- Gly Thr Cys Gly Glu --- Cys --- Tyr Ala --- Cys Thr Gly Cys
--- Gly Thr Cys Gly Glu --- Cys --- Tyr Ala Ala Cys --- Gly Cys
                                                                   (SEQ ID NO:
--- Gly Thr Cys Gly Glu --- Cys --- Tyr Ala Ala Cys Thr --- Cys
                                                                   (SEQ ID NO:
                                                                                  )
                                                                                  )
--- Gly Thr Cys Gly Glu --- Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                   (SEQ ID NO:
                                                                                  )
--- Gly Thr Cys Gly Glu --- Cys Ala --- Ala Cys Thr Gly Cys
                                                                   (SEQ ID NO:
                                                                                  )
--- Gly Thr Cys Gly Glu --- Cys Ala --- Ala --- Cys Thr Gly Cys
                                                                   (SEQ ID NO:
                                                                                  )
                                                                   (SEQ ID NO:
--- Gly Thr Cys Gly Glu --- Cys Ala --- Ala Ala Cys --- Gly Cys
                                                                                  )
--- Gly Thr Cys Gly Glu --- Cys Ala --- Ala Ala Cys Thr --- Cys
                                                                   (SEQ ID NO:
                                                                   (SEQ ID NO:
                                                                                  )
--- Gly Thr Cys Gly Glu --- Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                                  )
                                                                   (SEQ ID NO:
 --- Gly Thr Cys Gly Glu --- Cys Ala Tyr --- Cys Thr Gly Cys
                                                                                  )
--- Gly Thr Cys Gly Glu --- Cys Ala Tyr --- Ala Cys --- Gly Cys
                                                                   (SEQ ID NO:
                                                                   (SEQ ID NO:
 --- Gly Thr Cys Gly Glu --- Cys Ala Tyr --- Ala Cys Thr --- Cys
```

FIG. 3 (sheet 4 of 17)

```
--- Gly Thr Cys Gly Glu --- Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu --- Cys Ala Tyr Ala --- Cys --- Gly Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu --- Cys Ala Tyr Ala --- Cys Thr --- Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu --- Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu --- Cys Ala Tyr Ala Ala Cys --- -- Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu --- Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys --- Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys --- --- Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys --- --- Ala --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys --- Ala Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys --- Ala Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys --- Tyr --- Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys --- Tyr --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys --- Tyr --- Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys --- Tyr --- Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys --- Tyr Ala --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
--- Gly Thr Cys Gly Glu Ile Cys --- Tyr Ala --- Cys --- Gly Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys --- Tyr Ala --- Cys Thr --- Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys --- Tyr Ala Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys --- Tyr Ala Ala Cys --- Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys --- Tyr Ala Ala Cys Thr --- Cys
                                                                                )
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys Ala --- --- Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys Ala --- --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys Ala --- --- Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys Ala --- --- Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys Ala --- Ala --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
--- Gly Thr Cys Gly Glu Ile Cys Ala --- Ala --- Cys --- Gly Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys Ala --- Ala --- Cys Thr --- Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys Ala --- Ala Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys Ala --- Ala Ala Cys --- -- Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys Ala --- Ala Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
                                                                                )
                                                                                )
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys Ala Tyr --- Ala Cys Thr Gly Cys
--- Gly Thr Cys Gly Glu Ile Cys Ala Tyr --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys Ala Tyr --- Cys --- Gly Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys Ala Tyr --- Cys Thr --- Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys Ala Tyr --- Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys Ala Tyr --- Ala Cys --- --- Cys
                                                                 (SEQ ID NO:
                                                                                )
--- Gly Thr Cys Gly Glu Ile Cys Ala Tyr --- Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala --- Cys --- Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
--- Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala --- Cys
                                                                 (SEQ ID NO:
                                                                                )
--- Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala --- Cys Thr --- Cys
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
                                                                 (SEQ ID NO:
--- Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys --- Cys
                                                                                )
--- Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
```

FIG. 3 (sheet 5 of 17)

```
Pro --- Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr. Gly Cys
                                                               (SEQ ID NO:
Pro --- Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                              (SEQ ID NO:
Pro --- Cys --- Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                              (SEQ ID NO:
Pro --- Cys --- --- Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                               (SEQ ID NO:
Pro --- Cys --- Glu --- Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                               (SEQ ID NO:
Pro --- Cys --- Glu Ile Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                               (SEQ ID NO:
Pro --- Cys --- Glu Ile Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                               (SEQ ID NO:
Pro --- Cys --- Glu Ile Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                              (SEQ ID NO:
Pro --- Cys --- Glu Ile Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                               (SEQ ID NO:
                                                               (SEQ ID NO:
Pro --- Cys --- Glu Ile Cys Ala Tyr Ala Ala Cys --- Gly Cys
Pro --- Cys --- Glu Ile Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                               (SEQ ID NO:
Pro --- Cys Gly --- Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                               (SEQ ID NO:
Pro --- Cys Gly --- Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                               (SEQ ID NO:
Pro --- Cys Gly --- Ile Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                              (SEQ ID NO:
                                                               (SEQ ID NO:
                                                                             )
Pro --- Cys Gly --- Ile Cys Ala --- Ala Ala Cys Thr Gly Cys
Pro --- Cys Gly --- Ile Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                               (SEQ ID NO:
Pro --- Cys Gly --- Ile Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                               (SEQ ID NO:
Pro --- Cys Gly --- Ile Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                               (SEQ ID NO:
                                                                             )
Pro --- Cys Gly --- Ile Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                               (SEQ ID NO:
Pro --- Cys Gly Glu --- Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                               (SEQ ID NO:
Pro --- Cys Gly Glu --- Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                               (SEQ ID NO:
                                                                             )
Pro --- Cys Gly Glu --- Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                               (SEQ ID NO:
Pro --- Cys Gly Glu --- Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                               (SEQ ID NO:
Pro --- Cys Gly Glu --- Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                               (SEQ ID NO:
Pro --- Cys Gly Glu --- Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                               (SEQ ID NO:
Pro --- Cys Gly Glu --- Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                               (SEQ ID NO:
                                                                             )
Pro --- Cys Gly Glu Ile Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                               (SEQ ID NO:
Pro --- Cys Gly Glu Ile Cys --- Ala Ala Cys Thr Gly Cys
                                                               (SEQ ID NO:
Pro --- Cys Gly Glu Ile Cys --- Tyr --- Ala Cys Thr Gly Cys
                                                               (SEQ ID NO:
                                                                             )
Pro --- Cys Gly Glu Ile Cys --- Tyr Ala --- Cys Thr Gly Cys
                                                               (SEQ ID NO:
Pro --- Cys Gly Glu Ile Cys --- Tyr Ala Ala Cys --- Gly Cys
                                                               (SEQ ID NO:
Pro --- Cys Gly Glu Ile Cys --- Tyr Ala Ala Cys Thr --- Cys
                                                               (SEQ ID NO:
                                                                             )
Pro --- Cys Gly Glu Ile Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                               (SEQ ID NO:
Pro --- Cys Gly Glu Ile Cys Ala --- --- Ala Cys Thr Gly Cys
                                                               (SEQ ID NO:
                                                                             )
Pro --- Cys Gly Glu Ile Cys Ala --- Ala --- Cys Thr Gly Cys
                                                               (SEQ ID NO:
Pro --- Cys Gly Glu Ile Cys Ala --- Ala Ala Cys --- Gly Cys
                                                               (SEQ ID NO:
Pro --- Cys Gly Glu Ile Cys Ala --- Ala Ala Cys Thr --- Cys
                                                               (SEQ ID NO:
                                                                             )
Pro --- Cys Gly Glu Ile Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                               (SEQ ID NO:
Pro --- Cys Gly Glu Ile Cys Ala Tyr --- Cys Thr Gly Cys
                                                               (SEQ ID NO:
                                                                             )
                                                               (SEQ ID NO:
                                                                             )
Pro --- Cys Gly Glu Ile Cys Ala Tyr --- Ala Cys --- Gly Cys
Pro --- Cys Gly Glu Ile Cys Ala Tyr --- Ala Cys Thr --- Cys
                                                               (SEQ ID NO:
Pro --- Cys Gly Glu Ile Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                               (SEQ ID NO:
Pro --- Cys Gly Glu Ile Cys Ala Tyr Ala --- Cys --- Gly Cys
                                                               (SEQ ID NO:
                                                                             )
                                                                             )
Pro --- Cys Gly Glu Ile Cys Ala Tyr Ala --- Cys Thr --- Cys
                                                               (SEQ ID NO:
                                                                             )
Pro --- Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                               (SEQ ID NO:
                                                                             )
Pro --- Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys --- --- Cys
                                                               (SEQ ID NO:
                                                                             )
Pro --- Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                              (SEQ ID NO:
```

FIG. 3 (sheet 6 of 17)

```
Pro --- Thr Cys --- Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys --- --- Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys --- --- Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys --- --- Ile Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro --- Thr Cys --- --- Ile Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys --- --- Ile Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
Pro --- Thr Cys --- --- Ile Cys Ala Tyr Ala --- Cys Thr Gly Cys
Pro --- Thr Cys --- --- Ile Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys --- --- Ile Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys --- Glu --- Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro --- Thr Cys --- Glu --- Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys --- Glu --- Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys --- Glu --- Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys --- Glu --- Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys --- Glu --- Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys --- Glu --- Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro --- Thr Cys --- Glu Ile Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys --- Glu Ile Cys --- -- Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys --- Glu Ile Cys --- Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys --- Glu Ile Cys --- Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys --- Glu Ile Cys --- Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro --- Thr Cys --- Glu Ile Cys --- Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys --- Glu Ile Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys --- Glu Ile Cys Ala --- --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro --- Thr Cys --- Glu Ile Cys Ala --- Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys --- Glu Ile Cys Ala --- Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys --- Glu Ile Cys Ala --- Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys --- Glu Ile Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro --- Thr Cys --- Glu Ile Cys Ala Tyr --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys --- Glu Ile Cys Ala Tyr --- Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys --- Glu Ile Cys Ala Tyr --- Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys --- Glu Ile Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro --- Thr Cys --- Glu Ile Cys Ala Tyr Ala --- Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys --- Glu Ile Cys Ala Tyr Ala --- Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys --- Glu Ile Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro --- Thr Cys --- Glu Ile Cys Ala Tyr Ala Ala Cys --- --- Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys --- Glu Ile Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly --- Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly --- --- Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly --- -- Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly --- --- Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly --- --- Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly --- --- Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro --- Thr Cys Gly --- Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly --- -- Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro --- Thr Cys Gly --- Ile Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                )
Pro --- Thr Cys Gly --- Ile Cys --- Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                                 )
```

FIG. 3 (sheet 7 of 17)

```
Pro --- Thr Cys Gly --- Ile Cys --- Tyr --- Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro --- Thr Cys Gly --- Ile Cys --- Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly --- Ile Cys --- Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly --- Ile Cys --- Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly --- Ile Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly --- Ile Cys Ala --- --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly --- Ile Cys Ala --- Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly --- Ile Cys Ala --- Ala Ala Cys --- Gly Cys
Pro --- Thr Cys Gly --- Ile Cys Ala --- Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly --- Ile Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly --- Ile Cys Ala Tyr --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly --- Ile Cys Ala Tyr --- Ala Cys --- Gly Cys
Pro --- Thr Cys Gly --- Ile Cys Ala Tyr --- Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly --- Ile Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly --- Ile Cys Ala Tyr Ala --- Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly --- Ile Cys Ala Tyr Ala --- Cys Thr --- Cys
Pro --- Thr Cys Gly --- Ile Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly --- Ile Cys Ala Tyr Ala Ala Cys --- --- Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly --- Ile Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly Glu --- Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly Glu --- Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                                 )
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly Glu --- Cys --- --- Ala Ala Cys Thr Gly Cys
Pro --- Thr Cys Gly Glu --- Cys --- Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro --- Thr Cys Gly Glu --- Cys --- Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly Glu --- Cys --- Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly Glu --- Cys --- Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly Glu --- Cys Ala --- Ala Ala Cys Thr Gly Cys
Pro --- Thr Cys Gly Glu --- Cys Ala --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly Glu --- Cys Ala --- Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly Glu --- Cys Ala --- Ala Ala Cys --- Gly Cys
Pro --- Thr Cys Gly Glu --- Cys Ala --- Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly Glu --- Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly Glu --- Cys Ala Tyr --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro --- Thr Cys Gly Glu --- Cys Ala Tyr --- Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly Glu --- Cys Ala Tyr --- Ala Cys Thr --- Cys
Pro --- Thr Cys Gly Glu --- Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly Glu --- Cys Ala Tyr Ala --- Cys --- Gly Cys
Pro --- Thr Cys Gly Glu --- Cys Ala Tyr Ala --- Cys Thr --- Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
                                                                                 )
Pro --- Thr Cys Gly Glu --- Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                                 )
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly Glu --- Cys Ala Tyr Ala Ala Cys --- -- Cys
                                                                                 )
Pro --- Thr Cys Gly Glu --- Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly Glu Ile Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro --- Thr Cys Gly Glu Ile Cys --- -- Ala Ala Cys Thr Gly Cys
                                                                                 )
                                                                  (SEQ ID NO:
                                                                                 )
Pro --- Thr Cys Gly Glu Ile Cys --- --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro --- Thr Cys Gly Glu Ile Cys --- -- Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro --- Thr Cys Gly Glu Ile Cys --- Ala Ala Cys --- Gly Cys
                                                                                 )
                                                                  (SEQ ID NO:
                                                                                 )
Pro --- Thr Cys Gly Glu Ile Cys --- -- Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
```

FIG. 3 (sheet 8 of 17)

```
Pro --- Thr Cys Gly Glu Ile Cys --- Tyr --- Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro --- Thr Cys Gly Glu Ile Cys --- Tyr --- --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro --- Thr Cys Gly Glu Ile Cys --- Tyr --- Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro --- Thr Cys Gly Glu Ile Cys --- Tyr --- Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro --- Thr Cys Gly Glu Ile Cys --- Tyr Ala --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro --- Thr Cys Gly Glu Ile Cys --- Tyr Ala --- Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro --- Thr Cys Gly Glu Ile Cys --- Tyr Ala --- Cys Thr --- Cys
                                                                 (SEQ ID NO:
Pro --- Thr Cys Gly Glu Ile Cys --- Tyr Ala Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro --- Thr Cys Gly Glu Ile Cys --- Tyr Ala Ala Cys --- Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro --- Thr Cys Gly Glu Ile Cys --- Tyr Ala Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
Pro --- Thr Cys Gly Glu Ile Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro --- Thr Cys Gly Glu Ile Cys Ala --- --- Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                 (SEQ ID NO:
Pro --- Thr Cys Gly Glu Ile Cys Ala --- --- Cys Thr Gly Cys
Pro --- Thr Cys Gly Glu Ile Cys Ala --- --- Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro --- Thr Cys Gly Glu Ile Cys Ala --- --- Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro --- Thr Cys Gly Glu Ile Cys Ala --- Ala --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro --- Thr Cys Gly Glu Ile Cys Ala --- Ala --- Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro --- Thr Cys Gly Glu Ile Cys Ala --- Ala --- Cys Thr --- Cys
                                                                 (SEQ ID NO:
Pro --- Thr Cys Gly Glu Ile Cys Ala --- Ala Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro --- Thr Cys Gly Glu Ile Cys Ala --- Ala Ala Cys --- --- Cys
                                                                 (SEQ ID NO:
Pro --- Thr Cys Gly Glu Ile Cys Ala --- Ala Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro --- Thr Cys Gly Glu Ile Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro --- Thr Cys Gly Glu Ile Cys Ala Tyr --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro --- Thr Cys Gly Glu Ile Cys Ala Tyr --- Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro --- Thr Cys Gly Glu Ile Cys Ala Tyr --- Cys Thr --- Cys
                                                                 (SEQ ID NO:
Pro --- Thr Cys Gly Glu Ile Cys Ala Tyr --- Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro --- Thr Cys Gly Glu Ile Cys Ala Tyr --- Ala Cys --- --- Cys
                                                                 (SEQ ID NO:
Pro --- Thr Cys Gly Glu Ile Cys Ala Tyr --- Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
Pro --- Thr Cys Gly Glu Ile Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro --- Thr Cys Gly Glu Ile Cys Ala Tyr Ala --- Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro --- Thr Cys Gly Glu Ile Cys Ala Tyr Ala --- Cys --- --- Cys
                                                                 (SEQ ID NO:
Pro --- Thr Cys Gly Glu Ile Cys Ala Tyr Ala --- Cys Thr --- Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro --- Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro --- Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys --- --- Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro --- Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
Pro Gly --- Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly --- Cys --- Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly --- Cys --- --- Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly --- Cys --- --- Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly --- Cys --- --- Ile Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                                )
                                                                 (SEQ ID NO:
Pro Gly --- Cys --- -- Ile Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly --- Cys --- --- Ile Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly --- Cys --- --- Ile Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly --- Cys --- --- Ile Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly --- Cys --- --- Ile Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly --- Cys --- Glu --- Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly --- Cys --- Glu --- Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
```

FIG. 3 (sheet 9 of 17)

```
(SEQ ID NO:
Pro Gly --- Cys --- Glu --- Cys Ala --- Ala Ala Cys Thr Gly Cys
Pro Gly --- Cys --- Glu --- Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
Pro Gly --- Cys --- Glu --- Cys Ala Tyr Ala --- Cys Thr Gly Cys
Pro Gly --- Cys --- Glu --- Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys --- Glu --- Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
Pro Gly --- Cys --- Glu Ile Cys --- Tyr Ala Ala Cys Thr Gly Cys
Pro Gly --- Cys --- Glu Ile Cys --- --- Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys --- Glu Ile Cys --- Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys --- Glu Ile Cys --- Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys --- Glu Ile Cys --- Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys --- Glu Ile Cys --- Tyr Ala Ala Cys Thr --- Cys
                                                                                 )
                                                                  (SEQ ID NO:
                                                                                 )
                                                                  (SEQ ID NO:
Pro Gly --- Cys --- Glu Ile Cys Ala --- Ala Ala Cys Thr Gly Cys
Pro Gly --- Cys --- Glu Ile Cys Ala --- --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys --- Glu Ile Cys Ala --- Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys --- Glu Ile Cys Ala --- Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys --- Glu Ile Cys Ala --- Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys --- Glu Ile Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro Gly --- Cys --- Glu Ile Cys Ala Tyr --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
                                                                  (SEQ ID NO:
Pro Gly --- Cys --- Glu Ile Cys Ala Tyr --- Ala Cys --- Gly Cys
Pro Gly --- Cys --- Glu Ile Cys Ala Tyr --- Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys --- Glu Ile Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro Gly --- Cys --- Glu Ile Cys Ala Tyr Ala --- Cys --- Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro Gly --- Cys --- Glu Ile Cys Ala Tyr Ala --- Cys Thr --- Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro Gly --- Cys --- Glu Ile Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys --- Glu Ile Cys Ala Tyr Ala Ala Cys --- Cys
                                                                                 )
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
                                                                                 )
Pro Gly --- Cys --- Glu Ile Cys Ala Tyr Ala Ala Cys Thr --- Cys
Pro Gly --- Cys Gly --- Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly --- -- Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro Gly --- Cys Gly --- --- Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly --- --- Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly --- --- Cys Ala Tyr --- Ala Cys Thr Gly Cys
Pro Gly --- Cys Gly --- --- Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro Gly --- Cys Gly --- --- Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly --- Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly --- Ile Cys --- Tyr Ala Ala Cys Thr Gly Cys
Pro Gly --- Cys Gly --- Ile Cys --- -- Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly --- Ile Cys --- Tyr --- Ala Cys Thr Gly Cys
Pro Gly --- Cys Gly --- Ile Cys --- Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly --- Ile Cys --- Tyr Ala Ala Cys --- Gly Cys
                                                                                 )
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
                                                                                 )
Pro Gly --- Cys Gly --- Ile Cys --- Tyr Ala Ala Cys Thr --- Cys
Pro Gly --- Cys Gly --- Ile Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly --- Ile Cys Ala --- --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly --- Ile Cys Ala --- Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro Gly --- Cys Gly --- Ile Cys Ala --- Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
                                                                  (SEQ ID NO:
                                                                                 )
Pro Gly --- Cys Gly --- Ile Cys Ala --- Ala Ala Cys Thr --- Cys
                                                                                 )
                                                                   (SEQ ID NO:
Pro Gly --- Cys Gly --- Ile Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                                 )
Pro Gly --- Cys Gly --- Ile Cys Ala Tyr --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
```

FIG. 3 (sheet 10 of 17)

```
Pro Gly --- Cys Gly --- Ile Cys Ala Tyr --- Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly --- Ile Cys Ala Tyr --- Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly --- Ile Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly --- Ile Cys Ala Tyr Ala --- Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly --- Ile Cys Ala Tyr Ala --- Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly --- Ile Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly --- Ile Cys Ala Tyr Ala Ala Cys --- --- Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly --- Ile Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu --- Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu --- Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu --- Cys --- --- Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu --- Cys --- Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu --- Cys --- Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu --- Cys --- Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu --- Cys --- Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu --- Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu --- Cys Ala --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu --- Cys Ala --- Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu --- Cys Ala --- Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu --- Cys Ala --- Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro Gly --- Cys Gly Glu --- Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu --- Cys Ala Tyr --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu --- Cys Ala Tyr --- Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu --- Cys Ala Tyr --- Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro Gly --- Cys Gly Glu --- Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro Gly --- Cys Gly Glu --- Cys Ala Tyr Ala --- Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu --- Cys Ala Tyr Ala --- Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu --- Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu --- Cys Ala Tyr Ala Ala Cys --- Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro Gly --- Cys Gly Glu --- Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu Ile Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro Gly --- Cys Gly Glu Ile Cys --- --- Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu Ile Cys --- --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu Ile Cys --- -- Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu Ile Cys --- Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu Ile Cys --- --- Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu Ile Cys --- Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu Ile Cys --- Tyr --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu Ile Cys --- Tyr --- Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu Ile Cys --- Tyr --- Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu Ile Cys --- Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu Ile Cys --- Tyr Ala --- Cys --- Gly Cys
                                                                  (SEQ ID NO:
                                                                                )
Pro Gly --- Cys Gly Glu Ile Cys --- Tyr Ala --- Cys Thr --- Cys
                                                                  (SEQ ID NO:
                                                                                )
Pro Gly --- Cys Gly Glu Ile Cys --- Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
                                                                                )
Pro Gly --- Cys Gly Glu Ile Cys --- Tyr Ala Ala Cys --- Cys
                                                                  (SEQ ID NO:
                                                                                )
Pro Gly --- Cys Gly Glu Ile Cys --- Tyr Ala Ala Cys Thr --- Cys
                                                                                )
                                                                  (SEQ ID NO:
Pro Gly --- Cys Gly Glu Ile Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
```

FIG. 3 (sheet 11 of 17)

```
Pro Gly --- Cys Gly Glu Ile Cys Ala --- --- Ala Cys Thr Gly.Cys
                                                                 (SEQ ID NO:
Pro Gly --- Cys Gly Glu Ile Cys Ala --- --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly --- Cys Gly Glu Ile Cys Ala --- --- Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly --- Cys Gly Glu Ile Cys Ala --- --- Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly --- Cys Gly Glu Ile Cys Ala --- Ala --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly --- Cys Gly Glu Ile Cys Ala --- Ala --- Cys --- Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly --- Cys Gly Glu Ile Cys Ala --- Ala --- Cys Thr --- Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly --- Cys Gly Glu Ile Cys Ala --- Ala Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro Gly --- Cys Gly Glu Ile Cys Ala --- Ala Ala Cys --- --- Cys
                                                                                )
                                                                 (SEQ ID NO:
Pro Gly --- Cys Gly Glu Ile Cys Ala --- Ala Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly --- Cys Gly Glu Ile Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly --- Cys Gly Glu Ile Cys Ala Tyr --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly --- Cys Gly Glu Ile Cys Ala Tyr --- Cys --- Gly Cys
                                                                                )
                                                                 (SEQ ID NO:
Pro Gly --- Cys Gly Glu Ile Cys Ala Tyr --- Cys Thr --- Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly --- Cys Gly Glu Ile Cys Ala Tyr --- Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly --- Cys Gly Glu Ile Cys Ala Tyr --- Ala Cys --- --- Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly --- Cys Gly Glu Ile Cys Ala Tyr --- Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly --- Cys Gly Glu Ile Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                                )
                                                                 (SEQ ID NO:
Pro Gly --- Cys Gly Glu Ile Cys Ala Tyr Ala --- Cys --- Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly --- Cys Gly Glu Ile Cys Ala Tyr Ala --- Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly --- Cys Gly Glu Ile Cys Ala Tyr Ala --- Cys Thr --- Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly --- Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro Gly --- Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys --- --- Cys
                                                                 (SEQ ID NO:
Pro Gly --- Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys --- Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys --- --- Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys --- --- Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys --- --- Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys --- --- Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys --- --- Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys --- --- Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys --- --- Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys --- --- Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys --- -- Ile Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys --- --- Ile Cys --- -- Ala Ala Cys Thr Gly Cys
                                                                                )
                                                                 (SEQ ID NO:
Pro Gly Thr Cys --- -- Ile Cys --- Tyr --- Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys --- -- Ile Cys --- Tyr Ala --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys --- --- Ile Cys --- Tyr Ala Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys --- -- Ile Cys --- Tyr Ala Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys --- --- Ile Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys --- --- Ile Cys Ala --- --- Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys --- --- Ile Cys Ala --- Ala --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys --- --- Ile Cys Ala --- Ala Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys --- -- Ile Cys Ala --- Ala Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys --- --- Ile Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys --- --- Ile Cys Ala Tyr --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys --- --- Ile Cys Ala Tyr --- Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
```

FIG. 3 (sheet 12 of 17)

```
Pro Gly Thr Cys --- -- Ile Cys Ala Tyr --- Ala Cys Thr --- Cys (SEQ ID NO:
Pro Gly Thr Cys --- --- Ile Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys --- --- Ile Cys Ala Tyr Ala --- Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- --- Ile Cys Ala Tyr Ala --- Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- --- Ile Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- --- Ile Cys Ala Tyr Ala Ala Cys --- --- Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- --- Ile Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- Glu --- Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- Glu --- Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- Glu --- Cys --- --- Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- Glu --- Cys --- Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- Glu --- Cys --- Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- Glu --- Cys --- Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- Glu --- Cys --- Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- Glu --- Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- Glu --- Cys Ala --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- Glu --- Cys Ala --- Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- Glu --- Cys Ala --- Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- Glu --- Cys Ala --- Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- Glu --- Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- Glu --- Cys Ala Tyr --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- Glu --- Cys Ala Tyr --- Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- Glu --- Cys Ala Tyr --- Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- Glu --- Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- Glu --- Cys Ala Tyr Ala --- Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- Glu --- Cys Ala Tyr Ala --- Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- Glu --- Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- Glu --- Cys Ala Tyr Ala Ala Cys --- --- Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- Glu --- Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro Gly Thr Cys --- Glu Ile Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- Glu Ile Cys --- -- Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys --- Glu Ile Cys --- --- Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys --- Glu Ile Cys --- -- Ala --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys --- Glu Ile Cys --- Ala Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys --- Glu Ile Cys --- --- Ala Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys --- Glu Ile Cys --- Tyr --- Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys --- Glu Ile Cys --- Tyr --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys --- Glu Ile Cys --- Tyr --- Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys --- Glu Ile Cys --- Tyr --- Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys --- Glu Ile Cys --- Tyr Ala --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys --- Glu Ile Cys --- Tyr Ala --- Cys --- Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys --- Glu Ile Cys --- Tyr Ala --- Cys Thr .--- Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys --- Glu Ile Cys --- Tyr Ala Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys --- Glu Ile Cys --- Tyr Ala Ala Cys --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys --- Glu Ile Cys --- Tyr Ala Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys --- Glu Ile Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys --- Glu Ile Cys Ala --- --- Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
```

FIG. 3 (sheet 13 of 17)

```
Pro Gly Thr Cys --- Glu Ile Cys Ala --- --- Cys ThreGlyeCys
                                                                   (SEQ ID NO:
 Pro Gly Thr Cys --- Glu Ile Cys Ala --- Ala Cys --- Gly Cys
                                                                   (SEQ ID NO:
 Pro Gly Thr Cys --- Glu Ile Cys Ala --- Ala Cys Thr --- Cys
                                                                   (SEQ ID NO:
 Pro Gly Thr Cys --- Glu Ile Cys Ala --- Ala --- Cys Thr Gly Cys
                                                                   (SEQ ID NO:
 Pro Gly Thr Cys --- Glu Ile Cys Ala --- Ala --- Cys --- Gly Cys
                                                                   (SEQ ID NO:
 Pro Gly Thr Cys --- Glu Ile Cys Ala --- Ala --- Cys Thr --- Cys
                                                                   (SEQ ID NO:
 Pro Gly Thr Cys --- Glu Ile Cys Ala --- Ala Ala Cys --- Gly Cys
                                                                   (SEQ ID NO:
 Pro Gly Thr Cys --- Glu Ile Cys Ala --- Ala Ala Cys --- Cys
                                                                   (SEQ ID NO:
 Pro Gly Thr Cys --- Glu Ile Cys Ala --- Ala Ala Cys Thr --- Cys
                                                                   (SEQ ID NO:
 Pro Gly Thr Cys --- Glu Ile Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                   (SEQ ID NO:
 Pro Gly Thr Cys --- Glu Ile Cys Ala Tyr --- Cys Thr Gly Cys
                                                                   (SEQ ID NO:
 Pro Gly Thr Cys --- Glu Ile Cys Ala Tyr --- Cys --- Gly Cys
                                                                   (SEQ ID NO:
 Pro Gly Thr Cys --- Glu Ile Cys Ala Tyr --- Cys Thr --- Cys
                                                                  (SEQ ID NO:
                                                                                 )
 Pro Gly Thr Cys --- Glu Ile Cys Ala Tyr --- Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
 Pro Gly Thr Cys --- Glu Ile Cys Ala Tyr --- Ala Cys --- Cys
                                                                  (SEQ ID NO:
                                                                                 )
 Pro Gly Thr Cys --- Glu Ile Cys Ala Tyr --- Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
 Pro Gly Thr Cys --- Glu Ile Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
 Pro Gly Thr Cys --- Glu Ile Cys Ala Tyr Ala --- Cys --- Gly Cys
                                                                  (SEQ ID NO:
 Pro Gly Thr Cys --- Glu Ile Cys Ala Tyr Ala --- Cys --- Cys
                                                                  (SEQ ID NO:
 Pro Gly Thr Cys --- Glu Ile Cys Ala Tyr Ala --- Cys Thr --- Cys
                                                                  (SEQ ID NO:
 Pro Gly Thr Cys --- Glu Ile Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys --- Glu Ile Cys Ala Tyr Ala Ala Cys --- Cys
                                                                  (SEQ ID NO:
 Pro Gly Thr Cys --- Glu Ile Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys Gly --- Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys Gly --- --- Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro Gly Thr Cys Gly --- --- Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys Gly --- --- Cys --- --- Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys Gly --- --- Cys --- Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys Gly --- --- Cys --- Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro Gly Thr Cys Gly --- --- Cys --- Tyr Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys Gly --- --- Cys --- Tyr Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
                                                                                 )
Pro Gly Thr Cys Gly --- --- Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys Gly --- --- Cys Ala --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys Gly --- --- Cys Ala --- Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys Gly --- --- Cys Ala --- Ala Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys Gly --- --- Cys Ala --- Ala Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys Gly --- --- Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys Gly --- --- Cys Ala Tyr --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys Gly --- --- Cys Ala Tyr --- Ala Cys --- Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys Gly --- --- Cys Ala Tyr --- Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys Gly --- --- Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys Gly --- --- Cys Ala Tyr Ala --- Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly --- --- Cys Ala Tyr Ala --- Cys Thr --- Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys Gly --- --- Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly --- --- Cys Ala Tyr Ala Ala Cys --- --- Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys Gly --- --- Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys Gly --- Ile Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
```

FIG. 3 (sheet 14 of 17)

Pro Gly Thr Cys Gly --- Ile Cys --- Ala Ala Cys Thr Gly Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys --- --- Ala Cys Thr Gly Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys --- Ala --- Cys Thr Gly Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys --- Ala Ala Cys --- Gly Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys --- --- Ala Ala Cys Thr --- Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys --- Tyr --- Ala Cys Thr Gly Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys --- Tyr --- Cys Thr Gly Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys --- Tyr --- Ala Cys --- Gly Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys --- Tyr --- Ala Cys Thr --- Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys --- Tyr Ala --- Cys Thr Gly Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys --- Tyr Ala --- Cys --- Gly Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys --- Tyr Ala --- Cys Thr --- Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys --- Tyr Ala Ala Cys --- Gly Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys --- Tyr Ala Ala Cys --- Cys (SEQ ID NO: ) Pro Gly Thr Cys Gly --- Ile Cys --- Tyr Ala Ala Cys Thr --- Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys Ala --- Ala Ala Cys Thr Gly Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys Ala --- Ala Cys Thr Gly Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys Ala --- --- Cys Thr Gly Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys Ala --- -- Ala Cys --- Gly Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys Ala --- --- Ala Cys Thr --- Cys (SEQ ID NO: ) Pro Gly Thr Cys Gly --- Ile Cys Ala --- Ala --- Cys Thr Gly Cys (SEQ ID NO: ) Pro Gly Thr Cys Gly --- Ile Cys Ala --- Ala --- Cys --- Gly Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys Ala --- Ala --- Cys Thr --- Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys Ala --- Ala Ala Cys --- Gly Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys Ala --- Ala Ala Cys --- Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys Ala --- Ala Ala Cys Thr --- Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys Ala Tyr --- Ala Cys Thr Gly Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys Ala Tyr --- Cys Thr Gly Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys Ala Tyr --- Cys --- Gly Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys Ala Tyr --- Cys Thr --- Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys Ala Tyr --- Ala Cys --- Gly Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys Ala Tyr --- Ala Cys --- Cys (SEQ ID NO: ) Pro Gly Thr Cys Gly --- Ile Cys Ala Tyr --- Ala Cys Thr --- Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys Ala Tyr Ala --- Cys Thr Gly Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys Ala Tyr Ala --- Cys --- Gly Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys Ala Tyr Ala --- Cys --- Cys (SEQ ID NO: Pro Gly Thr Cys Gly --- Ile Cys Ala Tyr Ala --- Cys Thr --- Cys (SEQ ID NO: ) Pro Gly Thr Cys Gly --- Ile Cys Ala Tyr Ala Ala Cys --- Gly Cys (SEQ ID NO: ) Pro Gly Thr Cys Gly --- Ile Cys Ala Tyr Ala Ala Cys --- --- Cys (SEQ ID NO: ) Pro Gly Thr Cys Gly --- Ile Cys Ala Tyr Ala Ala Cys Thr --- Cys (SEQ ID NO: ) Pro Gly Thr Cys Gly Glu --- Cys Ala Tyr Ala Ala Cys Thr Gly Cys (SEQ ID NO: ) Pro Gly Thr Cys Gly Glu --- Cys --- Tyr Ala Ala Cys Thr Gly Cys (SEQ ID NO: ) Pro Gly Thr Cys Gly Glu --- Cys --- --- Ala Ala Cys Thr Gly Cys (SEQ ID NO: ) Pro Gly Thr Cys Gly Glu --- Cys --- --- Ala Cys Thr Gly Cys ) (SEQ ID NO: Pro Gly Thr Cys Gly Glu --- Cys --- --- Ala --- Cys Thr Gly Cys (SEQ ID NO: ) Pro Gly Thr Cys Gly Glu --- Cys --- --- Ala Ala Cys --- Gly Cys (SEQ ID NO: ) Pro Gly Thr Cys Gly Glu --- Cys --- --- Ala Ala Cys Thr --- Cys (SEQ ID NO:

FIG. 3 (sheet 15 of 17)

```
Pro Gly Thr Cys Gly Glu --- Cys --- Tyr --- Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys --- Tyr --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys --- Tyr --- Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys --- Tyr --- Ala Cys Thr --- Cys
                                                                  (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys --- Tyr Ala --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys --- Tyr Ala --- Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys --- Tyr Ala --- Cys Thr --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys --- Tyr Ala Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys --- Tyr Ala Ala Cys --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys --- Tyr Ala Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys Ala --- Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys Ala --- --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys Ala --- -- Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys Ala --- --- Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys Ala --- Ala --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys Ala --- Ala --- Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys Ala --- Ala --- Cys Thr --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys Ala --- Ala Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys Ala --- Ala Ala Cys --- --- Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys Gly Glu --- Cys Ala --- Ala Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys Ala Tyr --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys Ala Tyr --- Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys Ala Tyr --- Cys Thr --- Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys Gly Glu --- Cys Ala Tyr --- Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys Gly Glu --- Cys Ala Tyr --- Ala Cys --- --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys Ala Tyr --- Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys Ala Tyr Ala --- Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys Ala Tyr Ala --- Cys --- --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys Ala Tyr Ala --- Cys Thr --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys Ala Tyr Ala Ala Cys --- --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu --- Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys --- Tyr Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys --- --- Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys --- --- Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys --- --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys --- --- Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys --- --- Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys --- -- Ala --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys Gly Glu Ile Cys --- --- Ala --- Cys --- Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys Gly Glu Ile Cys --- -- Ala --- Cys Thr --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys --- --- Ala Ala Cys --- Gly Cys
                                                                                )
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys --- --- Ala Ala Cys --- --- Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys Gly Glu Ile Cys --- --- Ala Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
```

FIG. 3 (sheet 16 of 17)

```
Pro Gly Thr Cys Gly Glu Ile Cys --- Tyr --- Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys --- Tyr --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys --- Tyr --- Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys --- Tyr --- Cys Thr --- Cys
                                                                 (SEQ ID NO:
                                                                                )
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys Gly Glu Ile Cys --- Tyr --- Ala Cys --- Gly Cys
Pro Gly Thr Cys Gly Glu Ile Cys --- Tyr --- Ala Cys --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys --- Tyr --- Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys --- Tyr Ala --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys --- Tyr Ala --- Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys --- Tyr Ala --- Cys --- --- Cys
                                                                 (SEQ ID NO:
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys Gly Glu Ile Cys --- Tyr Ala --- Cys Thr --- Cys
Pro Gly Thr Cys Gly Glu Ile Cys --- Tyr Ala Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys --- Tyr Ala Ala Cys --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys --- Tyr Ala Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys Ala --- Ala Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys Ala --- --- Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys Ala --- --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys Ala --- --- Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys Ala --- --- Cys Thr --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys Ala --- --- Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys Ala --- --- Ala Cys --- --- Cys
                                                                 (SEQ ID NO:
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys Ala --- --- Ala Cys Thr --- Cys
Pro Gly Thr Cys Gly Glu Ile Cys Ala --- Ala --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys Ala --- Ala --- Cys --- Gly Cys
                                                                 (SEQ ID NO:
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys Ala --- Ala --- Cys --- --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys Ala --- Ala --- Cys Thr --- Cys
Pro Gly Thr Cys Gly Glu Ile Cys Ala --- Ala Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys Gly Glu Ile Cys Ala --- Ala Ala Cys --- --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys Ala --- Ala Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys Gly Glu Ile Cys Ala Tyr --- Ala Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys Ala Tyr --- Cys Thr Gly Cys
Pro Gly Thr Cys Gly Glu Ile Cys Ala Tyr --- Cys --- Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys Gly Glu Ile Cys Ala Tyr --- Cys --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys Ala Tyr --- Cys Thr --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys Ala Tyr --- Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys Ala Tyr --- Ala Cys --- --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys Ala Tyr --- Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala --- Cys Thr Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala --- Cys --- Gly Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala --- Cys --- --- Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala --- Cys Thr --- Cys
                                                                 (SEQ ID NO:
                                                                                )
                                                                                )
Pro Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys --- Gly Cys
                                                                 (SEQ ID NO:
Pro Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys --- -- Cys
                                                                 (SEQ ID NO:
                                                                                )
Pro Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr --- Cys
                                                                 (SEQ ID NO:
```

FIG. 3 (sheet 17 of 17)

FIG. 4 (sheet 1 of 114)

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m Glu}$ Glu Glu  $\mathtt{Gly}$  $\mathtt{GLy}$ GLyGLyGLyG1yGlyGLy ${\tt Gly}$ Gly GLyG1yGlyGly GlyGLy $_{
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m G1y}$ Cys Gly  ${\tt Gly}$ Gly G1yCys Cys Ç Cys Xaa' Thr  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Xaa' Xaa Thr Xaa' Xaa' Xaa' Xaa 1 Xaa' Xaa' Xaa' Xaa' Xaa' Xaaı Xaa' Xaa Xaa' Xaa Xaa' Xaa' Xaa' Xaa 1 Xaa ' Xaa' Xaa 1 Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Xaa' Xaa Xaa' Xaa 1 Xaa' Xaa' Xaa' Xaa' Xaa' Xaa, Xaa Xaa' Xaa' Xaa' Xaa Xaa' Xaa' Xaa' Xaa' Xaa' Xaa' Xaa'  $\operatorname{Thr}$ Xaa ' Xaa' Xaa ' Xaa Xaa' Xaa Xaa' Xaa Xaa' Xaa' Xaa Xaa' Xaa1 Xaa' Xaa' Gly Xaa' Xaa' Xaa Xaa' Xaa' Xaa Xaa' Xaa Xaa Xaa' Xaa' Xaa Gly Xaa' Xaa Xaa GLyGlyGIV GLyGlyGlyGly G1yGLyGly GLy $_{
m G1y}$ GLyGLy $\mathtt{GLy}$ Gly G1yGlyGLyGly Pro Pro

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m GLy}$ GlyG1yGlyGlyG1yXaa' Xaa' Xaa Xaa' Xaa Xaa' Xaa' Xaa 1 Xaa ' Xaa' Xaa 1 Xaa' Xaa' Xaa' Xaa' Xaa Xaa' Xaa'  $\mathtt{Gl}\mathtt{y}$ GlyGIV G1yGly G1yGly Cys Cys Cys Cys Çys Cys Cys  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr Thr  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr Thr Thr Thr Thr Thr Thr Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Th} x$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Xaa' Xaa' Xaa' Xaa' Xaa' Xaa Xaa' Xaa Xaa' Xaa' Xaa' Xaa' Xaa' Xaa' Xaa' Xaaı Xaa' Xaa ' Xaa Xaa ' Xaa ' Xaa Xaa, Xaa Xaa' Xaa' Xaa Xaa¹ Xaa Xaa Xaaı Xaa' Xaa Xaa' Xaa' Xaa' Xaa' Xaa t Xaa Xaa Xaa' Xaa' Xaa Xaa Xaa' Xaa1 Xaa' Xaa' Xaa' Xaa, Gly $_{
m Gly}$ GlyG1yG1yGlyGLyGlyG1yG1yGLyG1yGLyGly GLyGlyGlyGlyGLyGLyGly Gly Pro Pro

(sheet 2 of 114)

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m GLy}$ GlyCys Thr Gly Tyr Ala Ala Cys Thr Gly Ala Ala Cys Thr Gly GlyThr Xaa' Ala Tyr Ala Ala Xaa' Ala Tyr Ala Xaa' Ala Ala Ala Xaa' Tyr Ala Ala Cys Cys Cys Ala Ala Ala Ala Ala Tyr Ala Ala Tyr Ala Ala Tyr Ala Ala Tyr Ala Ala Ala Tyr Ala TyrTyrAla Ala Cys Ala Ala Xaa Xaa' Xaa' Xaa' Xaa Xaa 1 Xaa Ala Xaa' Cys Xaa' Xaa' Xaa Xaa Xaa Cys Xaa' Xaa' Cys Xaa' Cys Xaa' Cys Xaa' Ala Ala Ile Ile Ile Xaa' Xaa Xaa' Xaa' Xaa Xaa' Xaa' Xaa Xaa Xaa Xaa' Cys Cys Cys Cys Cys Cys Ile Ile Ile Ile IleIle Ile Ile Ile Ile Ile Glu Glu Glu GluGlu Glu Glu Glu Glu Glu Glu Glu  $_{\rm Glu}$ Glu Glu G1uGluGly GLy $_{\rm Gly}$ GIy Gly GLV ${\tt Gly}$ GlyGLyGlyGLy $_{\rm G1y}$ Gly Gly  $\mathtt{Gly}$ Ċys Cys Cys Cys Ċys Cys Cys Cys  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$ Xaa' Xaa' Xaa' Xaa' Xaa' Xaa' Xaa' Xaa' Xaa, Xaa' Xaa' Xaa Xaa Xaaı Xaa Xaa' Xaa' Xaa Xaa Xaa' Xaa Xaa' Xaa' Xaa' Xaa Xaa' Xaa Xaa Xaa' Xaa Xaa' Xaa1 Xaa Xaa' Xaa' Xaa' Xaa Xaa' Xaa' Xaa' Xaa' Xaa' Xaa Xaa GLyGLyGlyG1yG1yGlyGly $_{
m G1y}$ GlyG1y $_{\rm GLy}$  $_{
m GLy}$  $\mathtt{Gly}$ Gly GLy $\mathtt{Gly}$ G1yGLy $_{
m G1y}$ GlyGLyGlyPro Pro Pro

(sheet 3 of 114)

FIG. 4 (sheet 4 of 114)

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(SEQID NO:			(SEQID NO:	(SECIED NO:
Xaa' Thr Cys Gly Glu Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys Xaa' Thr Cys Gly Glu Ile Cys Ala Tyr Xaa' Ala Ala Ala Cys Thr Gly Cys Xaa' Thr Cys Gly Glu Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys Xaa' Thr Cys Gly Glu Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys Xaa' Thr Cys Gly Glu Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys Xaa' Thr Cys Gly Glu Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys Xaa' Thr Cys Gly Glu Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys Xaa' Thr Cys Gly Glu Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys Xaa' Thr Cys Gly Glu Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys Xaa' Thr Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys Xaa' Thr Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys Xaa' Thr Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys	Thr Cys Gly Glu lie Cys Ala Tyr Ala Xaa' Ala Xaa' Cys Inr Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Xaa' Thr Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr Xaa' Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Xaa' Thr Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Xaa' Thr Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Xaa'	Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Xaa' Cys Xaa' Thr Gly Cys Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Xaa' Cys Thr Xaa' Gly Cys Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Xaa' Cys Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Xaa'	Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Xaa' Thr Gly Cys Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Xaa' Thr Gly Cys Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Xaa' Thr Gly Cys Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Xaa' Thr Gly Xaa' Cys Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Xaa' Cys Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Xaa' Cys Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys Thr Cys Gly Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys Thr Cys Gly Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Cys Cys Xaa'	iii cys gry giu iie cys aid iyr aid Aid Cys inr gry cys Add'
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Gly Xaa' Thi Cys Gly Glu IIe Cys Ala Tyr Ala Ala Cys Thr Gly Cys Gly Xaa' Thi Xaa' Xaa' Cys Gly Glu IIe Cys Ala Tyr Ala Ala Cys Thr Gly Cys Gly Xaa' Thr Xaa' Xaa' Xaa' Cys Gly Glu IIe Cys Ala Tyr Ala Ala Cys Thr Gly Gly Xaa' Thr Xaa' Xaa' Xaa' Cys Gly Glu IIe Cys Ala Tyr Ala Ala Cys Thr Gly Gly Xaa' Thr Xaa' Xaa' Cys Gly Glu IIe Cys Ala Tyr Ala Ala Cys Thr Gly Gly Xaa' Thr Xaa' Xaa' Cys Gly Glu IIe Cys Ala Tyr Ala Ala Cys Thr Gly Gly Xaa' Thr Xaa' Xaa' Cys Gly Glu IIe Cys Ala Tyr Ala Ala Cys Thr Gly Gly Xaa' Thr Xaa' Xaa' Cys Gly Glu IIe Cys Ala Tyr Ala Ala Cys Thr Gly Gly Xaa' Thr Xaa' Xaa' Cys Gly Glu IIe Cys Ala Tyr Ala Ala Cys Thr Gly Gly Xaa' Thr Xaa' Xaa' Cys Gly Glu IIe Cys Ala Tyr Ala Ala Cys Thr Gly Gly Xaa' Thr Xaa' Xaa' Cys Gly Glu IIe Cys Ala Tyr Ala Ala Cys Thr Gly Gly Xaa' Thr Xaa' Xaa' Cys Gly Glu IIe Cys Ala Tyr Ala Ala Cys Thr Gly Gly Xaa' Thr Xaa' Xaa' Cys Gly Glu IIe Cys Ala Tyr Ala Ala Cys Thr Gly Gly Xaa' Thr Xaa' Xaa' Cys Gly Glu IIe Cys Ala Tyr Ala Ala Cys Thr Gly Gly Xaa' Thr Xaa' Xaa' Cys Gly Glu IIe Cys Ala Tyr Ala Ala Cys Thr Gly Gly Xaa' Thr Xaa' Xaa' Cys Gly Glu IIe Cys Ala Tyr Ala Ala Cys Thr Gly Cly Xaa' Thr Xaa' Xaa' Cys Gly Glu IIe Cys Ala Tyr Ala Ala Cys Thr Gly Cly Xaa' Thr Xaa' Xaa' Cys Xaa' In Coys Ala Tyr Ala Ala Cys Thr Gly Cly Xaa' Thr Xaa' Xaa' Cys Xaa' Gly Glu IIe Cys Ala Tyr Ala Ala Cys Thr Gly Cly Xaa' Thr Xaa' Cys Xaa' Gly Glu IIe Cys Ala Tyr Ala Ala Cys Thr Gly Cly Xaa' Thr Xaa' Cys Xaa' Gly Glu IIe Cys Ala Tyr Ala Ala Cys Thr Gly Cly Xaa' Thr Xaa' Cys Xaa' Gly Glu IIe Cys Ala Tyr Ala Ala Cys Thr Gly Gly Xaa' Thr Xaa' Cys Xaa' Gly Glu IIe Cys Ala Tyr Ala Ala Cys Thr Gly Gly Xaa' Thr Xaa' Cys Xaa' Gly Glu IIe Cys Ala Tyr Ala Ala Cys Thr Gly Gly Xaa' Thr Xaa' Cys Xaa' Gly Glu IIe Cys Ala Tyr Ala Ala Cys Thr Gly Gly Xaa' Thr Xaa' Cys Xaa' Gly Glu IIe Cys Ala Tyr Ala Ala Cys Thr Gly Gly Xaa' Thr Xaa' Cys Xaa' Gly Glu IIe Cys Ala Tyr Ala Ala Cys Thr Gly Gly Xaa' Thr Xaa' Cys Xaa' Gly Glu IIe Cys Ala Tyr Ala Ala Cys Thr Gly Gly Xaa' Thr Xaa' Cys Xaa' Gly Glu IIe Cys Ala T

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m GLy}$ GlyGlyGLy ${\tt GLy}$  $_{
m GLy}$  $_{
m Gly}$  $_{
m GLy}$  $_{\rm GLy}$  $\mathtt{Gly}$  $_{\rm GLy}$ GLyGlyGly GlyGly GLyCys Ċys Cys Cys Ċys Cys Cys Cys Çys Cys Cys Cys Cys Сyв Сys Cys Cys Xaa' Xaa Xaa Xaa ' Xaa ' Xaa Xaa, Xaa' Xaa' Xaa1 Xaa' Xaa' Xaa' Xaa' Xaa Xaa' Xaa' Xaa' Xaa t Xaa' Xaa Xaa Xaaı  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr Thr Thr Thr  $\operatorname{Thr}$ Thr Xaa Xaa' Xaa ' Xaa Xaa' Xaa Xaa' Xaa Xaa Xaa' Xaa Xaa Xaa Xaa, Xaa' Xaa' Xaa' Xaa, Xaa' Xaa Xaa Xaa' Xaa 1 Gly  $_{
m GLy}$ Gly $_{\rm GLy}$ GLy $\mathtt{Gly}$ GLy $\mathtt{Gly}$  $_{
m GLy}$  $_{\rm GLy}$ GlyGly GLyGLyG1y ${\tt GLy}$  ${\tt Gly}$ GLy ${\tt Gly}$ GLy  ${\tt GLy}$ GlyPro Pro Pro

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FIG. 4 (sheet 7 of 114)

(SEQID NO: SEQID NO: SEQID NO: SEQID NO SEQID NO SEQID NO (SEQID NO: (SEQID NO: (SEQID NO: (SEQID NO SEQID NO: SEQID NO SEQID NO Сув Cys CysCys CysCysAla Ala Xaa' Cys Thr Gly Cys Cys Xaa' Thr Gly Cys Thr Xaa' Gly Cys CysThr Gly Cys Xaa' Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys Xaa' Ala Xaa' Ala Cys Thr Gly Cys Cys Ala Tyr Xaa' Ala Ala Cys Xaa' Thr Gly Cys Gly Xaa' Cys Thr Gly Cys Xaa' Xaa' Cys Thr Gly Cys  $_{\rm GLy}$ Xaa' Tyr Ala Ala Cys Thr Gly Thr Xaa' Gly Gly Xaa' Tyr Ala Xaa' Ala Cys Thr Gly Xaa' Ala Ala Cys Thr Gly Ala Tyr Xaa' Ala Ala Xaa' Cys Thr Gly Xaa' Gly Tyr Xaa' Ala Ala Cys Thr Gly Ala Xaa' Tyr Ala Ala Cys Thr Gly Xaa' Tyr Ala Xaa' Xaa' Ala Cys Thr Gly Ala Ala Cys Thr Gly Cys Ala Ala Cys Thr Gly Cys  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\mathtt{Thr}$ Ala Xaa' Tyr Ala Ala Ala Tyr Ala Ala Cys Ala Tyr Ala Ala Cys Tyr Ala Ala Cys Cys Tyr Xaa' Ala Ala Cys Tyr Ala Xaa' Ala Cys Cys Ala Tyr Xaa' Ala Ala Cys Ala Ala Ala Xaa' Ala Ala Tyr Ala Xaa' Ala Tyr Ala Xaa' Ala Tyr Ala Xaa Xaa 1 TyrTyr TyrXaa Xaa Tyr Xaa' Ala Ala Xaa Xaa' Xaa Xaa' Xaa Xaa Xaa' Tyr : TyrTyrXaa 1 Xaa' Xaa ' Xaa ' Ala Cys Ala Cys Ala Cys Cys Cys Cys. Cys CysCys Cys Сув Cys Cys Cys Cys Ile Ile Ile I1eIle Ile Glu Glu Glu Glu GluGlu Glu Glu Glu Glu Glu Glu GluGlu Glu Glu Glu Glu Glu Glu Glu Gly $_{
m G1y}$ G1y $_{
m G1y}$ G1y $\mathtt{GLy}$ G1yGlyG1y $_{\rm GLy}$ Gly  $\mathtt{GLy}$ G1yG1yG1yG1y ${\tt Gly}$  ${\tt GLy}$ Gly $_{
m GLy}$ G1yGlyGly CysCys Cys Cys Cys Cys Ċys CysCys Cys Cys Cys Cys Xaa Xaa Xaa' Xaa Xaa' Xaa' Xaa Xaa' Xaa Xaa Xaa1 Xaa' Xaa Xaa' Xaa, Xaa Xaa Xaa' Xaa Xaa' Xaa' Xaa' Xaa' Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr Thr  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$ Thr Xaa' Xaa Xaa' Xaa' Xaa' Xaa' Xaa' Xaa Xaa' Xaa Xaa' Xaa Xaa' Xaa ' Xaa Xaa, Xaa' Xaa' Xaa' GLyGlyG1yGlyGly GLY $\mathtt{Gly}$ GlyG1yG1yGLy $\mathtt{Gly}$ GlyG1yGLy $_{
m GLY}$  $_{\rm GLy}$ GLyGLyGly  ${\tt GLy}$ GLyPro Pro Pro

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m Glu}$ G]n Glu Glu  $_{
m G1y}$  $_{
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m G1y}$ GLy $_{\rm Gly}$ GlyXaa' Xaa 1 Xaa' Xaa' Xaa ' Xaa' Cys Xaa' Xaa' Xaa' Xaa' Xaa' Xaa, Xaa' Xaa Cys Xaa' Cys Xaa' Xaa' Cys Xaa' Xaa' Cys Cys Cys Cys Cys Ċys Cys  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$ Thr Thr Thr Thr Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Th\dot{r}}$ Xaa Xaa, Xaa' Xaa' Xaaı Xaa Xaa, Xaa' GLy $_{
m G1y}$  $_{
m GLy}$ Gly G1yG1yG1yG1yGLy G1yGlyG1yG1yG1yG1yG1yG1yGlyGlyPro Pro Pro Pro Pro Pro Pro Pro. Pro Pro

(sheet 10 of 114)

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m GLy}$  $\mathtt{GLy}$ GLyGlyGly GlyGly Gly GLyXaa' Gly Xaa, Xaa, Xaa 1 Xaa' Xaa' Xaa' Xaa' Xaa' Xaa1 Cys Xaa' Xaa' Xaa Xaa' Xaa' Xaa Xaa' Xaa' Xaa' Xaa Xaa' Xaa Xaa Xaa' Xaa' G1yGlyGly $_{
m G1y}$ GlyCys Cys Cys Cys Cys Cys Cys Cys Cys Cys Thr  $\operatorname{Thr}$ Thr Thr  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr Thr Thr  $\operatorname{Thr}$ Thr Thr Thr Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr Thr Thr Xaa Xaa' Xaa' Xaa' Xaa, Xaa Xaaı Xaaı Xaa' Xaa' Xaa' Xaa Xaa' Xaa' Xaa' Xaa, Xaa' Xaa' Xaa' Xaa Xaa Xaa' G1yGlyGlyGly GLYGly G1yG1yGly  $_{\rm G1y}$  $\mathtt{Gly}$ GLyGly GLy $G_{1}y$ G1yGlyG1yGlyGLyGlyG1yG1yGly Gly Pro Pro

(sheet 11 of 114)

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Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys	Ala Tyr Ala Ala	Glu Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys	Glu Xaa' Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys	AlaAla	Glu Xaa' Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys	Glu Xaa' Ile Cys Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys	Glu Xaa' Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys	Glu Xaa' Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys	Glu Xaa' Ile Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys	Glu Xaa' Ile Cys Ala Tyr Ala Ala Cys Xaa' Thr Gly Cys	Glu Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys	Glu Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys	Glu Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa'	Glu Ile Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Cys	Glu Ile Xaa' Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Cys	Ala Tyr Ala Ala Cys Thr	Glu Ile Xaa' Cys Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys	Glu Ile Xaa' Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys	Glu Ile Xaa' Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys	Glu Ile Xaa' Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys	Glu Ile Xaa' Cys Ala Tyr Ala Ala Cys Xaa' Thr Gly Cys	Glu Ile Xaa' Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys	Glu Ile Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys	Glu Ile Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa'	Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys	Glu Ile Cys Xaa' Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys	Glu Ile Cys Xaa' Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys	Glu Ile Cys Xaa' Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys	Glu Ile Cys Xaa' Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys	Glu Ile Cys Xaa' Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys	Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Xaa' Thr Gly Cys	Ala Cys Thr Xaa' Gly	Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys	
Gly Xaa' Thr	Gly Xaa' Thr	Gly Xaa' Thr	Gly Xaa' Thr Cys	Gly Xaa' Thr	Gly Xaa' Thr	Gly Xaa' Thr Cys	Gly Xaa' Thr	Gly Xaa' Thr	Gly Xaa' Thr Cys	Gly Xaa' Thr Cys	Gly Xaa' Thr	Gly Xaa' Thr Cys	Gly Xaa' Thr Cys	Gly Xaa' Thr Cys	Gly Xaa' Thr Cys	Gly Xaa' Thr Cys	Gly Xaa' Thr	Gly Xaa' Thr Cys	Gly Xaa' Thr	Gly Xaa' Thr	Gly Xaa' Thr	Gly Xaa' Thr	Gly Xaa' Thr Cys	Gly Xaa' Thr	Gly Xaa' Thr Cys	Gly Xaa' Thr Cys	Gly Xaa' Thr	Gly Xaa' Thr Cys	Gly Xaa' Thr Cys	Gly Xaa' Thr Cys	Pro Gly Xaa' Thr Cys Gly Xaa'	Gly Xaa' Thr	Gly Xaa' Thr	

SEQID NO: SEQID NO: (SEQID NO: SEQID NO: SEQID NO: SEQID NO: SEQID NO: SEQID NO: (SEQID NO: SEQID NO: SEQID NO: SEQID NO: SEQID NO. SEQID NO: SEQID NO: SEQID NO: SEQID NO: SEQID NO: SEQID NO Cys CyscysCys CysCys CysCys Thr Gly Cys Xaa' Ala Ala Cys Thr Gly Xaa' Cys Xaa' Ala Cys Xaa' Thr Gly Cys Cys Xaa' Xaa' Thr Gly Cys Cys Xaa' Xaa Ala Xaa' Cys Thr Gly Xaa 1 Xaa' Ala Ala Cys Thr Gly Xaa' Xaa' Ala Cys Thr Gly Cys Thr Xaa' Gly Xaa' Cys Thr Gly Cys Xaa' Thr Gly Xaa' Xaa' Ala Cys Thr Gly Thr Gly Cys Cys Xaa' Ala Cys Thr Gly Cys Thr Xaa' Gly Cys Thr Gly Cys Thr Gly Cys Thr Gly Cys Thr Gly Xaa' Ala Cys Thr Gly Ala Xaa' Ala Cys Thr Gly Cys Thr Gly Thr  $\operatorname{Thr}$  $\operatorname{Thr}$ Ala Ala Xaa' Cys 3 Cys Cys Cys Cys Xaa' Cys Xaa' Ala Ala Ala Ala Xaa' Xaa' Xaa' Ala Ala Xaa' Ala Xaa Ala Ala Ala Ala Ala Ala Ala Ala Ala Xaa' Ala TyrTyrXaa' Xaa Xaa' Xaa' Xaa' Xaa1 Xaa' Tyr Ala Ala Ala Ala Ala Ala Ala Ala Ala Xaa, Xaa' Ala Xaa' Tyr ${
m Tyr}$ TyrTyrTyr  $\mathtt{Tyr}$  $\operatorname{Tyr}$ Tyr $\mathbf{T}\mathbf{y}\mathbf{r}$  $\operatorname{Tyr}$  $\operatorname{Tyr}$ TyrTyrTyr TyrTyrTyrTyrTyr Ala Ala Ala Ala Ala Ala Ala Ala Ala Cys Ala Cys Ala Ala Cys Ala Cys Ala Cys Ala Cys Ala Ala Cys Ala Cys Ala Cys Ala Cys Cys Cys 116 Ile Ile Ile Ile Ile Ile Ile Ile Glu Glu Glu Glu Glu Glu  $_{\mathrm{Glu}}$ Glu Glu Glu Glu GluGlu Glu GluGluXaa' Xaa, Xaa Xaa Xaa t Xaa, Xaa' Xaa Xaa' Xaa' Xaa' Xaa Xaa' Xaa' Xaa' Xaa' Xaa' Gly  $_{
m Gly}$  $_{\rm Gly}$ Gly G1yGly $_{
m Gly}$ GlyGly Gly Gly G1yG1yGly $_{\rm Gly}$ Суs Cys Cys Cys Cys Cys Cys Cys Cys Thr Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\mathtt{Thr}$ Thr  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\mathtt{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$ Thr Thr Thr Thr Thr Thr Thr  $\mathtt{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$ Xaa, Xaa' Xaa 1 Xaa Xaa' Xaa, Xaa Xaa Xaa' Xaa Xaa, Xaa, Xaa Xaa Xaa' Xaa' Xaa' Xaa' Xaa G1y $_{\rm GLy}$ G1yGlyGly GlyGlyGly  ${\tt Gly}$  ${\tt Gly}$ GLy $_{
m Gly}$ GlyGlyGlyG1yG1yG1yG1yGly  $_{
m GLy}$ Gly GlyPro Pro Pro

(sheet 13 of 114)

FIG. 4 (sheet 14 of 114)

FIG. 4 (sheet 15 of 114)

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Ile Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa'	Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly	Ile Cys Xaa' Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys	Ile Cys Xaa' Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys	Ile Cys Xaa' Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys	Ile Cys Xaa' Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys	Ile Cys Xaa' Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys	Ile Cys Xaa' Ala Tyr Ala Ala Cys Xaa' Thr Gly Cys	Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys	Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys	Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa'	Ile Cys Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys	Ile Cys Ala Xaa' Xaa' Tyr Ala Ala Cys Thr Gly Cys	Ile Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thr Gly Cys		Ile Cys Ala Xaa' Tyr Ala Ala Xaa' Cys Thr Gly Cys	Ile Cys Ala Xaa' Tyr Ala Ala Cys Xaa' Thr Gly Cys	Ile Cys Ala Xaa' Tyr Ala Ala Cys Thr Xaa' Gly Cys	Ile Cys Ala Xaa' Tyr Ala Ala Cys Thr Gly Xaa' Cys	Ile Cys Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys Xaa'	Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys	Ile Cys Ala Tyr Xaa' Xaa' Ala Ala Cys Thr Gly Cys	Ile Cys Ala Tyr Xaa' Ala Xaa' Ala Cys Thr Gly Cys	Ile Cys Ala Tyr Xaa' Ala Ala Xaa' Cys Thr Gly Cys	$\mathtt{Thr}$	Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Xaa' Gly Cys	Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Xaa' Cys	Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys Xaa'	Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys	Ile Cys Ala Tyr Ala Xaa' Xaa' Ala Cys Thr Gly Cys	Ile Cys Ala Tyr Ala Xaa' Ala Xaa' Cys Thr Gly Cys	Tyr Ala Xaa' Ala Cys Xaa' Thr Gly	Cys Ala Tyr Ala Xaa' Ala Cys Thr Xaa' Gly	Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Xaa' Cys
Gly Xaa' Thr	Xaa' Thr Cys Gly Glu	Gly Xaa' Thr	Gly Xaa' Thr Cys	Gly Xaa' Thr	Gly Xaa' Thr	Gly Xaa' Thr Cys	Gly Xaa' Thr Cys	Gly Xaa' Thr	Gly Xaa' Thr Cys	Gly Xaa' Thr Cys	Gly Xaa' Thr	Gly Xaa' Thr Cys	Gly Xaa' Thr	Gly Xaa' Thr Cys	Gly Xaa' Thr	Gly Xaa' Thr Cys	Gly Xaa' Thr Cys	Gly Xaa' Thr	Gly Xaa' Thr Cys	Gly Xaa' Thr	Gly Xaa' Thr	Gly Xaa' Thr	Gly Xaa' Thr	Gly Xaa' Thr Cys	Gly Xaa' Thr Cys	Gly Xaa' Thr							

FIG. 4 (sheet 16 of 114)

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(sheet 17 of 114)

SEQID NO: SEQID NO: SEQID NO: SEQID NO: SEQID NO: (SEQID NO: (SEQID NO: (SEQID NO: SEQID NO: SEQID NO: (SEQID NO: SEQID NO: (SEQID NO: (SEQID NO: (SEQID NO: (SEQID NO: (SEQID NO: SEQID NO: SEQID NO: SEQID NO: SEQID NO: CysCys Cys CysCysCys Cys Cys CysCys Cys CysCysCys Xaa' Cys Xaa' Cys Xaa' Xaa Xaa' Ala Ala Cys Thr Gly Cys Thr Gly Xaa' Xaa' Ala Cys Thr Gly Ala Xaa' Cys Thr Gly Xaa' Tyr Ala Ala Cys Thr Gly Xaa' Ala Ala Cys Thr Gly Ala Xaa' Ala Cys Thr Gly Cys Cys Cys Cys Xaa' Thr Thr Xaa' Xaa' Tyr Ala Ala Cys Xaa' Thr Thr Xaa' Xaa Gly (  $_{
m GLy}$  $_{
m G1y}$  $\mathtt{Gly}$ Gly GLYCys Thr Gly Thr Gly GlyCys Thr Gly Cys Thr  $_{
m Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\mathtt{Thr}$ Thr  $\operatorname{Thr}$ Xaa' Ala Ala Cys Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Ala Xaa' Xaa' Ala Xaa' Ala Tyr Ala Ala Ala Xaa' Cys Cys Cys Cys Cys Ala Ala Cys Cys Ala Ala Cys Ala Cys Ala Ala Ala Ala Ala Xaa' Ala Xaa' Ala Ala Ala Ala Ala Xaa' Ala Ala Ala Ala Xaa' Ala Ala Ala Ala Xaa' Xaa Xaa' Xaa Xaa'  $\mathrm{Tyr}$ TyrTyr $\operatorname{Tyr}$  $\operatorname{Tyr}$  $\mathrm{Ty} x$  $\mathtt{T}\mathtt{y}\mathtt{r}$ Xaa' Tyr $\operatorname{Tyr}$ Xaa Xaa' Xaa' Xaa Ala Ala Ala Ala Xaa Xaa Xaa' Xaa' Xaa' Ala Xaa' Xaa' Xaa'  $\mathbf{T}$ yr  $\operatorname{Tyr}$ TyrTyr TyrTyrTyrTyrTyrTyrTyrTyrTyrTyr TyrXaa Xaa' Xaa' Xaa' Xaa' Xaa Ala Ala Ala Cys Xaa' Xaa' Ala Ala Ala Ala Ala Ala Ala Ala Ala Xaa1 Ala Ala Ala Ala Ala Cys Ala Ala Cys Ala Ala Ala Ala Ala Cys Ala Cys Xaa' Xaa' Xaa' Xaa' Xaa' Xaa, Xaa' Xaa, Xaa' Xaa' Xaa 1 Xaa' Xaa' Xaa ' Xaa' Xaa ' Xaa Xaa' Xaa' Xaa ' Ile I1eIle Ile Ile Ile Ile Ile Ile Glu  $_{
m G1y}$  $_{
m GLy}$ Gly ${\tt Gly}$ Gly GlyG1yGly Gly GIVG1y $_{
m GLy}$ GlyG1y $G1\overline{Y}$ Gly ${\tt Gly}$  ${\tt Gly}$ GlyG1yG1yGlyGlyG1yG1yGly Cys Thr  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$ Thr Thr  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$ ThrXaa' Xaa' Xaa 1 Xaa, Xaa' Xaa' Xaa' Xaa 1 Xaa' Xaa' Xaa Xaa Xaa' Xaa' Xaa' Xaa' Xaa' Xaa Xaa' Xaa' Xaa' Xaa  $_{
m G1y}$ GLyGlyGLyGLYGlyGlyG1yGly  $_{
m GLy}$  ${\tt GLy}$ GLYG1yGly ${\tt Gly}$ Gly  ${\tt Gly}$ Gly GLyGlyGlyGly Pro Pro

FIG. 4 (sheet 18 of 114)

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Thr Cys Gly Glu Ile Cys Xaa' Ala Xaa' Tyr Ala Ala Cys Xaa' Thr Gly Cys Thr Cyy Gly Glu Ile Cys Xaa' Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys Thr Cyy Gly Glu Ile Cys Xaa' Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys Xaa' Thr Cys Gly Glu Ile Cys Xaa' Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys Xaa' Thr Cys Gly Glu Ile Cys Xaa' Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys Xaa' Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Xaa' Ala Cys Thr Gly Cys Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Xaa' Ala Cys Thr Gly Cys Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr A	Thr Cys Gly Glu lle Cys Xaa' Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys (Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Xaa' Kaa' Gly Cys (Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Xaa' Gly Xaa' Cys (Sheet 19 of 114)
Pro Gly Xaa	G1y G1y
Pro	Dro Dro Dro

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m GLy}$ Cys Ala Ala Cys Ala Ala Cys  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Ala Ala Xaa' Ala Ala Ala Xaa' Ala Ala Xaa' Ala Xaa' Ala Ala Ala Xaa' Ala Ala Xaa' Tyr Ala Ala Xaa' Cys Cys Ala Ala Xaa' Ala Ala Ala Ala Ala Ala Ala  $\operatorname{Tyr}$ Xaa' Tyr Xaa' Tyr Xaa' Ala Ala Ala Xaa' Xaa Xaa' Xaa Xaa Xaa' Xaa' Xaa Tyr Tyr Tyr Tyr Tyr Tyr $\operatorname{Tyr}$ Tyr Ala Xaa' Xaa' Xaa' Xaa' Xaa' Xaa' Xaa Xaa, Xaa Xaa 1 Xaa' Xaa' Xaa' Xaa' Xaa' Xaa' Xaa' Xaa1 Xaa' Xaa' Xaa' Ala Cys Ile Ile Ile  $_{\rm Ile}$ I]e Ile Ile Ile Ile Ile I]e Ile Ile Ile Ile Ile Ile Ile  $_{\rm Ile}$ Ile Ile Glu Gly Gly ${\tt GLy}$ Gly G1yGLyGlyGly GIV  $_{\rm GLy}$ GlyG1yGlyGLyGly Gly G1yGLYCys CYS Cys Cys Cys Cys Cys Thr Thr  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr Thr Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr Thr Thr Thr  $\operatorname{Thr}$ Xaa Xaa' Xaa' Xaa' Xaaı Xaa' Xaa' Xaa, Xaa Xaa Xaa' Xaa Xaa' Xaa Xaa Xaa' Xaa Xaa Xaa' Xaa Xaa' Xaa' Xaa' Gly Gly  $_{\rm Gly}$ G1yGlyGLyG1y $_{
m GLy}$  $_{
m G1y}$  $_{
m Gly}$ Gly ${\tt Gly}$ G1yGlyG1y $_{
m Gly}$ Gly $_{\rm Gly}$ Pro Pro

(sheet 20 of 114)

FIG. 4

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m G1y}$ GLyXaa' Ala Cys Thr Gly Cys Thr  $\operatorname{Thr}$  $\operatorname{Thr}$ Xaa' Xaa' Xaa' Cys : Cys Ala Xaa' Ala Cys Xaa'  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  ${
m Thr}$  $\operatorname{Thr}$ Xaa' Xaa' Ala Ala Xaa' Xaa' Ala Xaa' Ala Xaa' Ala Xaa' Ala Ala Xaa' Cys Cys Cys CysĊys Cys Cys Cys Cys Cys Çys Ala ( Ala Xaa' Ala Ala Xaa Ala Ala Ala Ala Ala Ala Ala Xaa Xaa 1 Xaa' Xaa' Ala Ala Xaa' Xaa' Xaa' Xaa Xaa' Xaa Xaa' Xaa 1 Xaa ' Xaa' Xaa 1 Xaa' Xaa ' Xaa, Ala Ala Ala Ala Ala Ala Tyr $\mathrm{T}\mathrm{yr}$  ${
m Tyr}$  $\mathbb{T} \mathrm{Yr}$ Tyr $\mathrm{T} \gamma r$  ${
m Tyr}$ TyrTyr Tyr  $_{
m T}{
m yr}$ TyrTyr TyrTyrTyr TyrTyrTyrTyrTyrTyr Ala Cys Cys CysCys Cys CyscysCys Сув Cys Cys Cys CysCys Cys Cys Cys Cys Cys Cys 11eIle Ile Ile Ile Ile Ile Ile I1e $_{\rm Ile}$ Ile Ile Ile Ile Ile IleIle I1eIleIleGlu Ile Glu Glu gluGlu Glu GluGlu Glu Glu Glu Glu Glu  ${\tt Gly}$ GLyG1yGlyGly G1yGly GlyG1yGLy $_{
m G1y}$ Gly G1y $\mathtt{Gly}$ GlyGly GLyGlyGlyCys Cys Cys Cys Cys Cys Cys Cys Thr  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$ Xaa Xaa' Xaa Xaa Xaa' Xaa Xaa' Xaa' Xaa, Xaaı Xaa Xaa' Xaa ' Xaa Xaa ' Xaa, Xaa' Xaa' Xaa, Xaa' Xaa' Xaa' Xaa' Xaa Xaa' Xaa' Gly Gly G1yGly G1yGLy $_{
m G1y}$ GLyGly ${\tt GLy}$ Gly GlyG1yG1yGlyGlyG1yGly G1yG1yGlyPro Pro Pro

## FIG. 4 (sheet 22 of 114)

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a Cys Xaa' Xaa' Thr Gly Cys	Cys Xaa'	a Cys Xaa' Thr Gly Xaa' Cys	a Cys Xaa' Thr Gly Cys Xaa'	a Cys Thr Xaa' Gly Cys	a Cys Thr Xaa' Xaa' Gly Cys	a Cys Thr Xaa' Gly Xaa' Cys	a Cys Thr Xaa' Gly Cys Xaa'	a Cys Thr Gly Xaa' Cys	a Cys Thr Gly Xaa' Xaa' Cys	Cys Thr	Cys Thr	a Cys Thr Gly Cys Xaa' Xaa'	' Cys Thr Gly (	' Xaa' Cys Thr Gly Cys	' Xaa' Xaa' Cys Thr Gly Cys	' Xaa' Cys Xaa' Thr Gly Cys	' Xaa' Cys Thr Xaa' Gly Cys	' Xaa' Cys Thr Gly Xaa' Cys	' Xaa' Cys Thr Gly Cys Xaa'	' Cys Xaa' Thr Gly Cys	' Cys Xaa' Xaa' Thr Gly Cys	' Cys Xaa' Thr Xaa' Gly Cys	' Cys Xaa' Thr Gly Xaa' Cys	' Cys Xaa' Thr Gly Cys Xaa'	' Cys Thr Xaa' Gly Cys	' Cys Thr Xaa' Xaa' Gly Cys	' Cys Thr Xaa' Gly Xaa' Cys	' Cys Thr	' Cys Thr Gly Xaa' Cys	' Cys Thr	' Cys Thr Gly Xaa' Cys Xaa'	Cys Thr	' Cys Thr Gly Cys Xaa' Xaa'
Thr	Thr Cys Gly Glu Ile Cys Ala	$_{ m Thr}$	$\operatorname{Thr}$	Thr	Thr	Thr	Thr Cys	Thr	Thr Cys	Thr Cys	$\operatorname{Thr}$	Thr Cys	Thr	Thr	Thr	Thr Cys	Thr	Thr Cys	Thr	Thr Cys Gly Glu Ile Cys Ala Tyr	$^{-}$ Thr	Thr Cys	_	Thr Cys	Thr	Thr Cys	Thr	Thr	Thr	Thr Cys	Thr	Thr Cys Gly Glu Ile Cys	Thr
G1y	Pro Gly Xaa'	G1y	Gly	${\tt Gly}$	$\mathtt{Gly}$	GLy	$\mathtt{GLy}$	$\mathtt{Gly}$	$_{ m G1y}$	$\mathtt{Gly}$	$\mathtt{Gl}\mathtt{y}$	${\tt Gly}$	$\mathtt{Gly}$	$\mathtt{Gly}$	$\mathtt{Gly}$	$\mathtt{Gl}\mathtt{Y}$	$\mathtt{Gly}$	$\mathtt{Gly}$	$\mathtt{Gly}$	$\mathtt{GLy}$	$\mathtt{Gly}$	${\tt Gly}$	Pro Gly Xaa'	$\mathtt{Gly}$	${\tt Gly}$	${\tt Gly}$	${\tt Gly}$	G1y	GLy	Gly	$\mathtt{Gly}$	$_{\rm Gly}$	${ t G1y}$

FIG. 4 (sheet 24 of 114)

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m GLy}$ G1yGLy $\mathtt{GLy}$  $_{
m G1y}$  $_{
m G1y}$  $_{
m G1y}$ GLyGLyGLyG1yCys Xaa' Gly Xaa' Gly  ${\tt Gly}$ G1yGLyGLYGLyGLyXaa' Cys Gly Gly Xaa' Gly Xaa' Gly Xaa' Cys Cys Xaa Xaa Cys Cys Xaa ' Xaa' Xaa' Xaa' Cys Xaa' Xaa Cys Xaa' Xaa' Xaa, Xaa' Xaa Xaa' Xaa' Xaa' Xaa' Xaa Cys Cys Cys Cys Cys Cys Cys Xaa Xaa' Xaa Xaa' Xaa' Xaa' Xaa' Xaa' Xaa, Xaa Xaa' Xaa' Xaa' Xaa' Xaa' Xaa t Xaa' Xaa' Xaa' Xaa' Xaa' Xaa' Xaa ' Xaa Xaa' Xaa' Xaa' Xaa' Xaa' Xaa Xaa' Xaa' Xaa' Xaa' Xaa Xaa' Xaa' Xaa' Xaa' Xaa' Xaa' Xaa Xaa' Xaa' Xaa' Xaa' Xaa' Xaa Xaa  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$ Thr Thr  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$ Gly G1yGly G1y ${\tt Gly}$ G1y $_{\rm Gly}$ G1yGlyGlyGLY $\mathtt{Gly}$ G1yGlyGly GlyGlyG1y $_{
m G1y}$  ${\tt Gly}$ GLyGly Pro Pro

FIG. 4 (sheet 26 of 114)

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Gly Xaa' Glu Ile Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly	Ala Cys Ill Ala Cys Thr	Gly Xaa' Glu Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr			Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Xaa' Thr Gly	' Gly		' Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa'	Ala Ala Cys Thr Gly (	Gly Glu Xaa' Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr		Gly Glu Xaa' Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr	a Ala Cys Thr Gly	Glu Xaa' Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly		Glu Xaa' Ile Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly		' Cys Gly Glu Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys		' Cys Gly Glu Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa'	Gly Glu Ile Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly (	' Cys Gly Glu Ile Xaa' Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Cys	' Cys Gly Glu Ile Xaa' Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys	Gly Glu Ile Xaa' Cys Ala Xaa' Tyr Ala Ala Cys Thr	'Cys Gly Glu Ile Xaa' Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys	' Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys	Glu Ile Xaa' Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly	' Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Ala Cys Xaa' Thr Gly Cys	Glu Ile Xaa' Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly	' Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Xaa'	' Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly	' Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys
	Хаа Хаа	Xaa	Хаа	Xaa	Xaa	Хаа	Xaa	Xaa	Хаа	Xaa	Xaa	Xaa	Xaa	Хаа	Хаа	Xaa	Xaa	Xaa	Xaa	Хаа	Xaa	Хаа	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Хаа	Хаа	Xaa	Хаа
Gly Thr	Pro Gly inr Xaa' Pro Gly Thr Xaa'	$\tilde{\mathtt{Gly}}$			Pro Gly Thr Xaa'				Gly Thr			Pro Gly Thr Xaa'							${\tt Gly}$				Pro Gly Thr Xaa'	${\tt GLy}$	Pro Gly Thr Xaa'	Pro Gly Thr Xaa'		Pro Gly Thr Xaa'			$\mathtt{Gly}$	Pro Gly Thr Xaa'

FIG. 4 (sheet 27 of 114)

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Gly Glu Ile Cys Xaa' Xaa' Ala	Add Tyr Xaa' Ala Ala Cys Thr Gly	Gly Glu Ile Cys Xaa' Ala Tyr Ala Xaa' Ala		Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Xaa' Thr Gly Cys		Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys	Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa'	Gly Glu Ile Cys Ala Xaa' Tyr Ala Ala Cys Thr Gly (		Gly Glu Ile Cys Ala Xaa' Tyr	Cys Gly Glu Ile Cys Ala Xaa' Tyr Ala Xaa' Ala Cys Thr Gly Cys	Gly Glu Ile	Glu Ile Cys Ala Xaa' Tyr Ala Ala Cys Xaa' Thr		Gly Glu Ile	Glu Ile Cys Ala Xaa' Tyr Ala Ala Cys Thr	Cys Gly Glu Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys	Gly Glu Ile	Glu Ile		Gly Glu Ile	Gly Glu Ile Cys Ala	Gly Glu Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr	Cys Gly Glu Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys Xaa'	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Xaa' Ala Cys Thr Gly Cys	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Xaa' Cys Thr Gly Cys	Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Xaa' Thr	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr Xaa' Gly Cys	Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr	a Tyr Ala Xaa' Ala Cys Thr Gly (	Cys Gly Glu Ile Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys
Xaa	Xaa'	Xaa'	Xaa'	Xaa'	Xaa'	Xaa	Xaa'	Xaa 1	Xaa1	Xaa	Xaa	Xaa'	Xaa	Xaa	Xaa	Xaa,	Xaa	Xaa	Xaa	Xaa'	Xaa	Xaa'	Xaa	Xaa	Xaa'	Xaa'	Xaa	Xaa'	Xaa'	Xaa'	Xaa'	Xaa'
Gly Thr	Pro Gly Thr Xaa' Pro Gly Thr Xaa'	$_{ m J}^{ m r}$	Gly Thr	Gly Thr	Gly Thr	Gly Thr	Gly Thr	Gly Thr	Gly Thr	Gly Thr	Gly Thr	$\bar{\tt Gly}$	Gly Thr	Gly Thr	Gly Thr	Gly Thr	Gly Thr	Gly Thr	Gly Thr	Gly Thr	Gly Thr	Gly Thr	Gly Thr	Gly Thr	Gly Thr	Gly Thr	Gly Thr	Gly Thr		Gly Thr	$\operatorname{Thr}$	Pro Gly Thr Xaa'

FIG. 4 (sheet 28 of 114)

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m GLy}$  $_{
m G1y}$ G1y $_{
m G1y}$  $_{
m G1y}$  $_{
m G1y}$ GLyG1yGLyGlu Glu Glu Xaa' Xaa' Xaa Xaa Xaa t Xaa ' Xaa Xaa' Xaa'  $_{
m G1y}$  $_{
m GLy}$ Gly  $_{
m G1y}$ GLyGlyG1yCys Cys Cys Cys Cys Cys Cys Xaa Xaa' Xaa Xaa' Xaa' Xaa Xaa Xaa Xaa' Xaa' Xaa Xaa, Xaa' Xaa' Xaa Xaa' Xaa Cys Cys Cys Xaa Xaa' Xaa ' Xaa Xaa, Xaa' Xaa' Xaa' Xaa Xaa1 Xaa' Xaa Xaa' Xaa' Xaa' Xaa Xaa Xaa Xaa1 Xaa' Xaa, Thr Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$ Thr Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $_{
m G1y}$  $_{
m GLy}$ GlyGly $_{\rm Gly}$  $_{
m G1y}$ G1y $_{\rm Gly}$ GlyG1yG1y $_{
m GLy}$  $_{\rm Gly}$  $_{
m GLy}$  $_{
m G1y}$ G1yG1yGly G1yPro Pro Pro

FIG. 4	sheet 29 of 114)
	(s)

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m GLy}$  $_{
m GLy}$  ${\tt Gly}$  $_{
m GLY}$  $_{
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m GLy}$ G1yGLy ${\tt GLy}$ GLyGlyGLYG1y $_{\rm GLy}$ Xaa 1 Xaa1 Xaa 1 Xaa' Xaa' Xaa Xaa Xaa' Xaa' Xaa' Xaa' Xaa' Xaa' Xaa' Cys Xaa' Xaa' Cys Xaa' Xaa' Xaa Cys Xaa' Xaa' Xaa 1 Cys Cys Cys Cys Cys Cys Cys Cys Xaa' Xaa' Xaa ' Xaa' Xaa Xaa' Xaa' Xaa' Xaa, Xaa Xaa' Xaa' Xaa' Xaa' Xaa' Xaa' Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\mathtt{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\mathtt{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $_{
m GLy}$  ${\tt Gly}$ Gly ${\tt Gly}$ G1y $_{
m G1y}$  $\mathtt{Gl}\mathtt{y}$ Gly G1yGly GLyG1y $_{\rm GLy}$ Gly ${\tt GLy}$ GlyGlyPro Pro Pro

FIG. 4 (sheet 30 of 114)

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FIG. 4 (sheet 33 of 114)

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Gly Thr	Gly Thr Xaa' Cys	Gly Thr Xaa' Cys	Gly Thr Xaa' Cys	Gly Thr Xaa'	Gly Thr Xaa' Cys	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa' Cys	Gly Thr Xaa' Cys	Gly Thr Xaa'	Gly Thr Xaa' Cys	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa' Cys	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa' Cys	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa' Cys	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa' Cys	Gly Thr Xaa' Cys	Gly Thr Xaa'	Gly Thr Xaa' Cys	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa' Cys	Gly Thr Xaa'

FIG. 4 (sheet 34 of 114)

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FIG. 4 (sheet 35 of 114)

FIG. 4 (sheet 36 of 114)

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FIG. 4 (sheet 37 of 114)

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m yr}$  $\operatorname{Tyr}$ TyrTyrXaa TyrAla Ala Xaa Xaa' Xaa Xaa' Ala Ala Xaa Xaa Xaa Xaa' Cys Ala Xaa' Xaa' Ala Tyr : Tyr TyrTyrTyrTyrAla Ala Ala Ala Ala Ala Cys Ala Cys Ala Cys Ala Cys Ala Cys Cys Cys Cys Cys Cys Cys Xaa Xaa' Xaa Xaa1 Xaa ' Xaa' Xaa ' Xaa 1 Xaa' Xaa' Xaa Ile Xaa' Xaa ' Ile Xaa' Xaa' Ile Xaa' Ile Ile Ile II E Ile Ile Ile Ile Ile Ile Ile Glu GluGlu Glu  $_{
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m G1y}$ G1yG1yG1yG1yCys Cys Cys Cys Cys Xaa1 Xaa Xaa' Xaa' Xaa' Xaa Xaa ' Xaa' Xaa' Xaa Xaa' Xaa' Xaa Xaa' Xaa'  $\operatorname{Thr}$ Thr Thr  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\mathtt{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ GLy $_{
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m G1y}$ GlyG1yGlyGLyG1yGlyGlyG1yPro Pro Pro

Pero Gly Thix Xaa' Oys Gly Glu Ile Xaa' Oys Ala Tyr Ala Ala Xaa' Xaa' Cys Thir Gly Cys SGDD NO.  Pero Gly Thix Xaa' Oys Gly Glu Ile Xaa' Oys Ala Tyr Ala Ala Xaa' Oys Thir Xaa' Gly Cys SGDD NO.  Pero Gly Thix Xaa' Oys Gly Glu Ile Xaa' Oys Ala Tyr Ala Ala Xaa' Oys Thir Gly Xaa' Cys GEOD NO.  Pero Gly Thix Xaa' Oys Gly Glu Ile Xaa' Oys Ala Tyr Ala Ala Xaa' Oys Thir Gly Xaa' Cys GEOD NO.  Pero Gly Thix Xaa' Oys Gly Glu Ile Xaa' Oys Ala Tyr Ala Ala Xaa' Oys Thir Gly Xaa' SECOD NO.  Pero Gly Thix Xaa' Oys Gly Glu Ile Xaa' Oys Ala Tyr Ala Ala Cys Xaa' Thir Gly Cys Xaa' SECOD NO.  Pero Gly Thix Xaa' Oys Gly Glu Ile Xaa' Oys Ala Tyr Ala Ala Cys Xaa' Thir Gly Cys Xaa' (SECOD NO.  Pero Gly Thix Xaa' Oys Gly Glu Ile Xaa' Oys Ala Tyr Ala Ala Cys Xaa' Thir Gly Cys (SECOD NO.  Pero Gly Thix Xaa' Oys Gly Glu Ile Xaa' Oys Ala Tyr Ala Ala Cys Xaa' Thir Gly Cys (SECOD NO.  Pero Gly Thix Xaa' Oys Gly Glu Ile Xaa' Oys Ala Tyr Ala Ala Cys Xaa' Thir Caly Cys Xaa' (SECOD NO.  Pero Gly Thix Xaa' Oys Gly Glu Ile Xaa' Oys Ala Tyr Ala Ala Cys Thix Xaa' Cys (SECOD NO.  Pero Gly Thix Xaa' Oys Gly Glu Ile Xaa' Oys Ala Tyr Ala Ala Cys Thix Xaa' Cys (SECOD NO.  Pero Gly Thix Xaa' Oys Gly Glu Ile Xaa' Oys Ala Tyr Ala Ala Cys Thix Xaa' Cys (SECOD NO.  Pero Gly Thix Xaa' Oys Gly Glu Ile Xaa' Oys Ala Tyr Ala Ala Cys Thix Xaa' Cys (SECOD NO.  Pero Gly Thix Xaa' Oys Gly Glu Ile Xaa' Oys Ala Tyr Ala Ala Cys Thir Xaa' Oys (SECOD NO.  Pero Gly Thix Xaa' Oys Gly Glu Ile Xaa' Oys Ala Tyr Ala Ala Cys Thir Gly Xaa' Cys Xaa' (SECOD NO.  Pero Gly Thix Xaa' Oys Gly Glu Ile Xaa' Oys Ala Tyr Ala Ala Cys Thir Gly Xaa' Oys (SECOD NO.  Pero Gly Thix Xaa' Oys Gly Glu Ile Xaa' Oys Ala Tyr Ala Ala Cys Thir Gly Xaa' Oys (SECOD NO.  Pero Gly Thix Xaa' Oys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thir Gly Cys Xaa' (SECOD NO.  Pero Gly Thix Xaa' Oys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thir Gly Cys Xaa' (SECOD NO.  Pero Gly Thix Xaa' Oys Gly Glu Ile Cys Xaa' Ala Ala Tyr Ala Ala Cys Thir Gly Cys Thir Gly Cys (SECOD NO.  Pero Gly Thix Xaa' Oys Gly Glu Ile Cys Xaa' Ala																	, 15																	
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FIG. 4 (sheet 38 of 114)

FIG. 4 (sheet 39 of 114)

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FIG. 4 (sheet 40 of 114)

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Cys Gly Glu Il Cys Gly Glu Il Cys Gly Glu Il	Gly Glu	Gly Glu	Gly Glu	Gly Glu	Gly Glu	Gly Glu	Gly Glu	Gly Glu	$_{ m GIu}$	Gly Glu	Gly Glu	Gly Glu	$_{ m G1y}$		ys Gly Glu Ile	${\tt Gly}$	Gly Glu	Gly Glu	$_{ m G1y}$	Gly Glu	Gly Glu	Gly Glu	Gly Glu	Gly	Gly Glu	Gly Glu	ys Gly Glu Ile	ys Gly Glu Ile	ys Gly Glu Ile	ys Gly Glu Ile	Gly Glu Il	
	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Xaa 1	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Pro Gly Thr Xaa' C	

FIG. 4 (sheet 41 of 114)

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m G1y}$ Gly ${\tt Gly}$ G1yG1yGlyGly G1yGlyGlyGlyGly Cys Ċys Сув Cys Cys Cys Xaa ' Xaa 1 Xaa' Xaa t Xaa' Xaa' Xaa' Xaa Xaa ' Xaa 1 Xaa, Xaa' Xaa Xaa ' Xaa' Xaa' Xaa' Xaa' Xaa' Xaa' Xaa' Xaa Xaa Xaa Thr Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\mathtt{Gly}$ GLyGly ${\tt Gly}$ GlyGlyG1yG1yGlyGlyGLYGLyG1yGlyG1yGly Gly Pro Pro

FIG. 4 (sheet 42 of 114)

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Ala Ala Xaa' Cys Thr Gly Cys Ala Ala Xaa' Cys Thr Xaa' Gly Cys Ala Ala Xaa' Cys Thr Gly Xaa' Cys Ala Ala Xaa' Cys Thr Gly Xaa' Cys Ala Ala Cys Xaa' Thr Gly Cys Ala Ala Cys Thr Xaa' Gly Cys Ala Ala Cys Thr Xaa' Gly Cys Ala Ala Cys Thr Xaa' Gly Cys Ala Ala Cys Thr Cys Xaa' Cys Ala Ala Cys Thr Gly Cys Xaa' Aaa' Ala Cys Thr Gly Cys Xaa' Xaa' Ala Cys Thr Gly Cys Xaa' Xaa' Ala Cys Thr Gly Cys Xaa' Xaa' Ala Cys Thr Gly Cys Xaa' Aaa' Ala Cys Thr Gly Cys	Xaa' Xaa' Ala Cys Thr Xaa' Gly Xaa' Xaa' Ala Cys Thr Gly Xaa' Xaa' Xaa' Ala Cys Thr Gly Cys X Xaa' Ala Xaa' Cys Thr Gly Cys Xaa' Ala Xaa' Cys Thr Gly Cys Xaa' Ala Xaa' Cys Thr Gly Xaa' Xaa' Ala Xaa' Cys Thr Gly Xaa' Xaa' Ala Xaa' Cys Thr Gly Cys Xaa' Ala Xaa' Cys Thr Gly Cys
Cys Gly Glu Ile Cys Ala Tyr Xaa' Cys Gly Glu Ile Cys Ala Tyr Ala	Cys Gly Glu lle Cys Ala Tyr
Pro Gly Thr Xaa'	619 Thr

FIG. 4 (sheet 43 of 114)

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Tyr Ala Xaa' Ala Cys Xaa' Xaa' Thr Gly Cys Tyr Ala Xaa' Ala Cys Xaa' Thr Xaa' Gly Cys Tyr Ala Xaa' Ala Cys Xaa' Thr Gly Xaa' Cys	Tyr Ala Xaa' Ala Cys Xaa' Thr Gly Cys Xaa' Tyr Ala Xaa' Ala Cys Thr Xaa' Gly Cys	Tyr Ala Xaa' Ala Cys Thr Xaa' Xaa' Gly Cys Tyr Ala Xaa' Ala Cys Thr Xaa' Gly Xaa' Cys	Tyr Ala Xaa' Ala Cys Thr Xaa' Gly Cys Xaa' Tyr Ala Xaa' Ala Cys Thr Gly Xaa' Cys	Tyr Ala Xaa' Ala Cys Thr Gly Xaa' Xaa' Cys	Tyr Ala Xaa' Ala Cys Thr Gly Cys Xaa'	Tyr Ala Xaa' Ala Cys Thr Gly Cys Xaa' Xaa'	Tyr Ala Ala Xaa' Cys Thr Gly Cys	Tyr Ala Ala Xaa' Xaa' Cys Thr Gly Cys	Tyr Ala Ala Xaa' Xaa' Cys IIII Gly Cys Twr Ala ala Xaa' Xaa' Thr Gly Cys	Tyr Ala Ala Xaa' Xaa' Cys Thr Xaa' Gly Cys	Ala Tyr Ala Ala Xaa' Xaa' Cys Thr Gly Xaa' Cys (	Cys Xaa'		Thr Gly Cys	Gly Cys	Xaa' Cys	Xaa' Cys Xaa' Thr Gly Cys Xaa'	Ala Xaa' Cys Thr Xaa' Gly Cys	Gly Cys	Xaa' Cys	'Gly Cys Xaa'	Ala Tyr Ala Ala Xaa' Cys Thr Gly Xaa' Cys	Xaa' Xaa' Cys	Tyr Ala Ala Xaa' Cys Thr Gly Xaa'	Tyr Ala Ala Xaa' Cys Thr Gly Cys Xaa'	Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Xaa' Xaa'
Cys Gly Glu Ile Cys Ala Cys Gly Glu Ile Cys Ala Cys Gly Glu Ile Cys Ala	Gly Glu Ile Cys Gly Glu Ile Cys		Cys Gly Glu Ile Cys Ala	Gly Glu Ile	Gly Glu ile Cys	gly Glu Ile	Gly Glu Ile Cys	Gly Glu Ile Cys	GLY GLu Ile	Gly Glu Ile Cys	Gly Glu Ile Cys	Gly Glu Ile Cys	Gly Glu Ile Cys	Gly Glu Ile Cys	Gly Glu Ile Cys	Gly Glu Ile Cys	Gly Glu Ile Cys	Gly Glu Ile Cys	Gly Glu Ile Cys	Gly Glu Ile Cys	Gly Glu Ile Cys	Gly Glu Ile Cys	Gly Glu Ile Cys	Gly Glu Ile Cys	Glu Ile Cys	Gly Glu Ile Cys
Xaa' Xaa' Xaa'	Gly Thr Xaa' Gly Thr Xaa'	Gly Thr Xaa' Gly Thr Xaa'	Gly Thr Xaa' Gly Thr Xaa'	Gly Thr Xaa'	Gly Inr Aga' Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'	Gly Thr Xaa'

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Pro 6	Pro 6	Pro 6																															

## F1G. 4 (sheet 44 of 114)

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Pro Gly Thr Cys Xaa' Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys Pro Gly Thr Cys Xaa' Xaa' Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys	Gly Thr Cys Xaa' Xaa' Xaa' Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys	Thr Cys Xaa' Xaa' Xaa' Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly	Gly Thr Cys Xaa' Xaa' Xaa' Gly Xaa' Glu Ile	Gly Thr Cys Xaa' Xaa' Gly Glu Ile Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly	Thr Cys Xaa' Xaa' Gly Glu Ile Cys Xaa' Ala	Gly Thr	Gly Thr Cys Xaa' Xaa' Xaa'	-	Gly Thr	Gly Thr	Gly Thr Cys	Gly Thr Cys Xaa' Xaa' Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr	Thr Cys Xaa' Xaa' Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr	Gly Thr Cys Xaa' Xaa'	Gly Thr Cys Xaa' Xaa' Gly Xaa' Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Thr	Gly Thr Cys Xaa' Kaa' Gly Xaa' Glu Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr	Gly Thr	Gly Thr Cys Xaa' Xaa' Gly Xaa' Glu Ile Cys >	Gly Thr Cys	Thr Cys		Thr	Pro Gly Thr Cys Xaa' Xaa' Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Xaa' Thr Gly Cys	Gly Thr	Gly Thr Cys Xaa' Xaa'	Gly Thr Cys Xaa' Kaa' Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Thr	. Thr	Gly Thr Cys Xaa' Xaa' Gly Glu Xaa' Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr	Thr Cys Xaa' Xaa' Gly Glu Xaa' Ile Xaa' Cys Ala Tyr Ala Ala Cys Thr	Gly Thr Cys Xaa' Xaa' Gly Glu Xaa' Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly	Pro Gly Thr Cys Xaa' Xaa' Gly Glu Xaa' Ile Cys Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys

FIG. 4 (sheet 46 of 114)

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' Gly Glu Xaa' Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys	' Gly Glu Xaa' Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr	_	'Gly Glu Xaa' Ile Cys Ala Tyr Ala Ala Cys Xaa' Thr	'Gly Glu Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr	' Gly Glu Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys	. Gly Glu Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr	' Gly Glu Ile Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Cys	_	' Gly Glu Ile Xaa' Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys	'Gly Glu Ile Xaa' Cys Ala Xaa' Tyr Ala Ala Cys Thr	' Gly Glu Ile Xaa' Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys	'' Gly Glu Ile Xaa' Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys	'Gly Glu Ile Xaa' Cys Ala Tyr Ala Ala Xaa' Cys Thr	' Gly Glu Ile Xaa' Cys Ala Tyr Ala Ala Cys Xaa' Thr Gly	_	' Gly Glu Ile Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Xaa'	'Gly Glu Ile Xaa' Cys Ala Tyr Ala Ala Cys Thr	ı' Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys	'Gly Glu Ile Cys Xaa' Xaa' Ala Tyr Ala Ala Cys Thr	' Gly Glu Ile Cys Xaa' Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys		_	_	'Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Xaa' Thr Gly	'Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Xaa' Gly	_	1' Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa'	ı' Gly Glu Ile Cys Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys	'Gly Glu Ile Cys Ala Xaa' Xaa' Tyr Ala Ala Cys Thr	'Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thr	' Gly Glu Ile Cys Ala Xaa' Tyr Ala Xaa' Ala Cys Thr Gly	' Gly Glu Ile Cys Ala Xaa' Tyr Ala Ala Xaa' Cys Thr Gly	ı' Gly Glu Ile Cys Ala Xaa' Tyr Ala Ala Cys Xaa' Thr Gly Cys
Thr Cys Xaa' Xaa	Cys Xaa'	Cys	Cys	Cys	Cys	Cys Xaa'	Cys	Cys	Cys	Cys	Cys	Cys	Cys	Cys	Cys	Cys	Cys	Cys	Cys	Cys	Cys	Cys	Cys	Cys	Cys	Cys	Cys	Cys	Cys	Cys	Thr Cys Xaa' Xaa	Cys	Cys
Glv	Gly	$\hat{Gly}$	Gly	Gly	Gly	G1y	Gly	Gly	G1y	Gly	$_{ m G1y}$	Gly	${\tt Gly}$	Gly	Gly	G1y	G1y	Gly	$^{-}$ Gly	Gly	Gly	$^{ m Gly}$	$^{-}$ G1 $^{-}$	$\mathtt{Gly}$	$\mathtt{Gly}$	$_{ m G1y}$	${\tt Gly}$	$\mathtt{Gly}$	$_{ m GLy}$	$_{ m G1y}$	Pro Gly I	G1y	${\tt Gly}$

FIG. 4 (sheet 47 of 114)

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m GLy}$ GLyGLyGLyGly $_{
m G1y}$ G1yG1y ${\tt Gly}$ GlyXaa ' Xaa' Xaa ' Xaa Xaa 1 Xaa' Xaa' Xaa Xaa' Xaa' Xaa Xaa ' Xaa Xaa' Xaa' Xaa 1 Xaa' Xaa' Xaa Xaa' Xaa Xaa' Xaa' Xaa' Xaa, Xaa, Xaa, Xaa' Xaa' Xaa' Xaa' Xaa' Xaa' Cys Cys Cys Cys Cys Cys Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\mathtt{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  ${\tt Gly}$ Gly GlyGlyGlyGly $_{
m G1y}$ Gly $_{
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m Gly}$ GLyGLyGlyGly G1yG1yG1y $\mathtt{Gly}$ GlyGlyPro Pro Pro

FIG. 4 (sheet 48 of 114)

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m Gly}$ Tyr Ala Ala Xaa' Glu Xaa' Ile Cys Ala Tyr Ala Ala Ile Xaa' Cys Ala Tyr Ala Ala Tyr Xaa' Ala Ala Ala Xaa' Ala  $\operatorname{Thr}$ Thr Thr Cys Ala Tyr Ala Ala Cys Cys Tyr Ala Ala Cys Tyr Ala Ala Tyr Ala Ala Xaa' Glu Ile Cys Ala Tyr Ala ' Ala Cys Ala Cys Ala Cys Ala Cys Ala Cys Ċỳs Cys Cys Ile Cys Ala Ile Cys Ala Ile IleIle Ile Ile Ile IleXaa Ile I1eGlu Ile Xaa' Glu Ile Xaa' Glu Ile Glu Xaa' Ile Glu Ile Xaa' Glu Ile Xaa' Glu Ile Glu Glu Glu Glu Glu Xaa' Xaa' Xaa' Xaa' Xaa' Xaa' Xaa' Xaa Xaa Xaa Glu Glu Xaa' Xaa' Xaa Xaa Xaa' Xaa Xaa' Xaa Xaa. Gly Xaa' Gly Xaa' Gly Xaa' Gly Xaa' Xaa' Xaa' Xaa' Gly Xaa' Gly Xaa' Gly Xaa' Gly Xaa' Xaa'  ${\tt Gly}$ Gly  $_{
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m G1y}$ Gly Gly  ${\tt Gly}$ Xaa' Xaa Xaa ' Xaa' Xaa' Xaa' Xaa' Xaa' Xaa Xaa' Xaa ' Xaa Xaa' Xaa1 Xaa' Xaa Xaa' Xaa' Xaa' Cys Cys Cys Cys Cys Cys Cys Cys Cys Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Th} x$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $_{
m G1y}$  $\mathtt{Gly}$  $\mathtt{Gly}$  ${\tt Gly}$  $_{\rm GLy}$  $_{
m GLy}$  $_{
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FIG. 4 (sheet 49 of 114)

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Gly Xaa' Glu Ile Xaa' Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys	' Gly Xaa' Glu Ile Xaa' Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys ' ' Glv Xaa' Glu Ile Xaa' Cvs Ala Tvr Ala Ala Xaa' Cvs Thr Glv Cvs '	Gly Xaa' Glu Ile Xaa' Cys Ala Tyr Ala Ala Cys Xaa' Thr Gly Cys (	'Gly Xaa' Glu Ile Xaa' Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys	'Gly Xaa' Glu Ile Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys	' Gly Xaa' Glu Ile Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa'	' Gly Xaa' Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys	' Gly Xaa' Glu Ile Cys Xaa' Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys	' Gly Xaa' Glu Ile Cys Xaa' Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys	' Gly Xaa' Glu Ile Cys Xaa' Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys	' Gly Xaa' Glu Ile Cys Xaa' Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys	'Gly Xaa' Glu Ile Cys Xaa' Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys	' Gly Xaa' Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Xaa' Thr Gly Cys	' Gly Xaa' Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys	' Gly Xaa' Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys	' Gly Xaa' Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa'	' Gly Xaa' Glu Ile Cys Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys	' Gly Xaa' Glu Ile Cys Ala Xaa' Xaa' Tyr Ala Ala Cys Thr Gly Cys	'Gly Xaa' Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thr Gly Cys	' Gly Xaa' Glu Ile Cys Ala Xaa' Tyr Ala Xaa' Ala Cys Thr Gly Cys	'Gly Xaa' Glu Ile Cys Ala Xaa' Tyr Ala Ala Xaa' Cys Thr Gly Cys	' Gly Xaa' Glu Ile Cys Ala Xaa' Tyr Ala Ala Cys Xaa' Thr Gly Cys	'Gly Xaa' Glu Ile Cys Ala Xaa' Tyr Ala Ala Cys Thr Xaa' Gly Cys	'Gly Xaa' Glu Ile Cys Ala Xaa' Tyr Ala Ala Cys Thr Gly Xaa' Cys	' Gly Xaa' Glu Ile Cys Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys Xaa'	' Gly Xaa' Glu Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys	' Gly Xaa' Glu Ile Cys Ala Tyr Xaa' Xaa' Ala Ala Cys Thr Gly Cys	' Gly Xaa' Glu Ile Cys Ala Tyr Xaa' Ala Xaa' Ala Cys Thr Gly Cys	' Gly Xaa' Glu Ile Cys Ala Tyr Xaa' Ala Ala Xaa' Cys Thr Gly Cys	'Gly Xaa' Glu Ile Cys Ala Tyr Xaa' Ala Ala Cys Xaa' Thr Gly Cys	' Gly Xaa' Glu Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Xaa' Gly Cys	'Gly Xaa' Glu Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Xaa' Cys	Gly Xaa' Glu Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys Xaa'
	Cys Xaa Cvs Xaa		Cys Xaa	Cys Xaa	Cys Xaa	Cys Xaa	Cys Xaa	Cys Xaa	Cys Xaa	Cys Xaa	Cys Xaa	Cys Xaa	Cys Xaa	Cys Xaa	Cys Xaa	Cys Xaa	Cys Xaa	Cys Xaa	Cys Xaa	Cys Xaa	Cys Xaa	Cys Xaa	Cys Xaa	Cys Xaa	Cys Xaa	Cys Xaa	Cys Xaa	Cys Xaa	Cys Xaa	Cys Xaa	Cys Xaa	Cys Xaa'
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m Thr}$ Xaa' Gly Cys Ala Tyr Ala Ala Cys Thr Gly Cys  $\operatorname{Thr}$ Xaa' Ala Ala Xaa Xaa Xaa Xaa' Cys Xaa' Cys  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Ala Xaa' Cys Ala Tyr Ala Cys Ala Xaa' Tyr Ala Xaa' Xaa' Cys Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Cys Cys Cys Cys Cys Cys Cys Cys Ala Tyr Xaa' Ala Cys Ala Tyr Ala Ala Ala Ala Ala Ala Ala Ala Ala Tyr Ala Tyr Ala Tyr Ala Tyr Ala Tyr Ala Tyr TyrTyrTyrTyrAla Ala Ala Cys Ala Cys Ala Ile Cys Cys Xaa' Xaa' Ile Ile Ile Ile Glu Ile Xaa' Glu Ile Ile I1e  $_{\text{Ile}}$ IleIle Glu Ile Ile Glu Glu Glu Glu Glu Glu Glu Glu Glu GluGluXaa' Xaa' Glu Xaa Glu Xaa' Xaa' Xaa' Xaa 1 Xaa 1 Xaa 1 Xaa' Xaa¹ Xaa 1 Xaa' Xaa' Xaa, Gly Xaa' Xaa' Xaa' Gly Xaa' Gly Xaa' Glu Glu Gly Gly Gly G1yG1yGly G1y $\mathtt{Gly}$ G1yGly Gly  $\mathtt{Gly}$ GLyGLyGlyGLy $_{
m G1y}$  $_{
m G1y}$ Xaa' Xaa ' Xaa' Xaa' Xaa Xaa Xaa' Xaa' Xaa 1 Xaa' Xaa' Xaa' Xaa' Xaa' Xaa' Xaa' Xaa' Xaa' Cys Cys Cys Cys Cys Cys Cys CysCys Cys Cys  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\mathtt{Gl}\mathtt{y}$ GLyGlyGLyGlyGlyGlyG1yGLyGLy ${\tt Gly}$  ${\tt Gly}$ G1yGlyGlyG1y $_{\rm GLy}$ GLYG1yGlyGLyGly Pro Pro

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## FIG. 4 (sheet 51 of 114)

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Thr Cys Xaa' Gly Glu Xaa' Ile Cys Ala Xaa' Tyr Ala Ala Cys Thr Gly Xaa' Cys Thr Cys Xaa' Gly Glu Xaa' Ile Cys Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys Xaa' Thr Cys Xaa' Gly Glu Xaa' Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys Thr Cys Xaa' Gly Glu Xaa' Ile Cys Ala Tyr Xaa' Xaa' Ala Ala Cys Thr Gly Cys Thr Cys Xaa' Gly Glu Xaa' Ile Cys Ala Tyr Xaa' Ala Xaa' Ala Cys Thr Gly Cys Thr Cys Xaa' Gly Glu Xaa' Ile Cys Ala Tyr Xaa' Ala Ala Xaa' Cys Thr Gly Cys (	Thr Cys Xaa' Gly Glu Xaa' 11e Cys Ala Tyr Xaa' Ala Ala Cys Xaa' Thr Gly Cys Thr Cys Xaa' Gly Glu Xaa' 11e Cys Ala Tyr Xaa' Ala Ala Cys Thr Xaa' Gly Cys Thr Cys Xaa' Gly Glu Xaa' 11e Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys Xaa' Thr Cys Xaa' Gly Glu Xaa' 11e Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys Thr Cys Xaa' Gly Glu Xaa' 11e Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys Thr Cys Xaa' Gly Glu Xaa' 11e Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys Thr Cys Xaa' Gly Glu Xaa' 11e Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys Thr Cys Xaa' Gly Glu Xaa' 11e Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys Thr Cys Xaa' Gly Glu Xaa' 11e Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys Thr Cys Xaa' Gly Glu Xaa' 11e Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys Thr Cys Xaa' Gly Glu Xaa' 11e Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys Thr Cys Xaa' Gly Glu Xaa' 11e Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Thr Cys Xaa' Gly Glu Xaa' 11e Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Thr Cys Xaa' Gly Glu Xaa' 11e Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Thr Cys Xaa' Gly Glu Xaa' 11e Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Thr Cys Xaa' Gly Glu Xaa' 11e Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Thr Cys Xaa' Gly Glu Xaa' 11e Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Thr Cys Xaa' Gly Glu Xaa' 11e Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Thr Cys Xaa' Gly Glu Xaa' 11e Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Thr Cys Xaa' Gly Glu Xaa' 11e Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Thr Cys Xaa' Gly Glu Xaa' 11e Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Xaa' Thr Cys Xaa' Gly Glu Xaa' 11e Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Xaa' Thr Cys Xaa' Gly Glu Xaa' 11e Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Cys Thr Cys Xaa' Gly Glu Xaa' 11e Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Xaa' Thr Cys Xaa' Gly Glu Xaa' 11e Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Xaa' Thr Cys Xaa' Gly Glu Xaa' 11e Cys Ala Tyr Ala Ala Ala Xaa' Cys Thr Gly Cys Cys Chr Cys Xaa' Gly Glu Xaa' 11e Cys Ala Tyr Ala Ala Ala Xaa' Cys Thr Gly Cys Cys Chr Cys Xaa' Chr Cys Xaa' Chr Cys Ala Tyr Ala Ala Ala Xaa' Cys Thr Gly Cys	Thr Cys Xaa' Gly Glu Xaa' Ile Cys Ala Tyr Ala Ala Cys Xaa' Thr Cly Cys Thr Cys Xaa' Gly Glu Xaa' Ile Cys Ala Tyr Ala Ala Cys Xaa' Thr Xaa' Gly Cys Thr Cys Xaa' Gly Glu Xaa' Ile Cys Ala Tyr Ala Ala Cys Xaa' Thr Gly Xaa' Cys Thr Cys Xaa' Gly Glu Xaa' Ile Cys Ala Tyr Ala Ala Cys Xaa' Thr Gly Cys Xaa' Thr Cys Xaa' Gly Glu Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys Thr Cys Xaa' Gly Glu Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys Thr Cys Xaa' Gly Glu Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys Xaa' Thr Cys Xaa' Gly Glu Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys Xaa' Thr Cys Xaa' Gly Glu Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys Xaa' Thr Cys Xaa' Gly Glu Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys Xaa' Thr Cys Xaa' Gly Glu Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys Thr Cys Xaa' Gly Glu Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys Thr Cys Xaa' Gly Glu Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys
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Gly Thr Cys Xaa' (	Glu .	Ile Cys Ala Xaa'	Tyr Ala Ala Cys Xaa' Thr Xaa' Gly Cys	(SEQID NO:
Gly Thr Cys Xaa' (	Glu :	Ile Cys Ala Xaa'	Tyr Ala Ala Cys Xaa' Thr Gly Xaa' Cys	(SEQID NO:
Gly Thr Cys Xaa' (	Glu :	lle Cys Ala Xaa'	Tyr Ala Ala Cys Xaa' Thr Gly Cys Xaa'	(SEQID NO:
Gly Thr Cys Xaa' (	Gly Glu Il	lle Cys Ala Xaa'	Tyr Ala Ala Cys Thr Xaa' Gly Cys	(SEQID NO:
Gly Thr Cys Xaa' (	Glu	le Cys Ala Xaa'	Tyr Ala Ala Cys Thr Xaa' Xaa' Gly Cys	(SEQID NO:
Gly Thr Cys Xaa' (	Gly Glu Il	e Cys Ala Xaa'	Tyr Ala Ala Cys Thr Xaa' Gly Xaa' Cys	(SEQID NO:
Gly Thr Cys Xaa' (	Gly Glu Il	le Cys Ala Xaa'	Tyr Ala Ala Cys Thr Xaa' Gly Cys Xaa'	(SEQID NO:
Thr Cys Xaa'	Glu I	le Cys Ala Xaa'	Tyr Ala Ala Cys Thr Gly Xaa' Cys	(SEQID NO:
Gly Thr Cys Xaa' (	Glu ]	lle Cys Ala Xaa'	Tyr Ala Ala Cys Thr Gly Xaa' Xaa' Cys	(SEQID NO:
Gly Thr Cys Xaa' (	Gly Glu Il	le Cys Ala Xaa'	Tyr Ala Ala Cys Thr Gly Xaa' Cys Xaa'	(SEQID NO:
Thr Cys Xaa'	Gly Glu Il	e Cys Ala Xaa'	Ala Cys Thr	
Cys Xaa'	Gly Glu Il	e Cys Ala Xaa'	Ala Cys Thr	
Gly Thr Cys Xaa' (	3ly Glu Il	e Cys Ala Tyr	Xaa' Ala Ala Cys Thr Gly Cys	(SEQID NO:
			FIG. 4	

FIG. 4 (sheet 58 of 114)

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Pro Gly Thr Cys Xaa'	Gly Thr Cys Xaa'	Gly Thr Cys

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FIG. 4 (sheet 67 of 114)

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Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Prc	Prc	Prc	Prc	

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FIG. 4 (sheet 73 of 114)

FIG. 4	(sheet 74 of 114)
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(SEQID NO:	
Pro Gly Thir Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Xaa' Thi Xaa' Thir Gly Cys Pro Gly Thir Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Xaa' Thir Xaa' Taa' Gly Cys Pro Gly Thir Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Xaa' Thir Xaa' Gly Cys Pro Gly Thir Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Xaa' Thir Xaa' Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Xaa' Thir Xaa' Gly Xaa' Cys Pro Gly Thir Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Xaa' Thir Gly Xaa' Cys Pro Gly Thir Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Xaa' Thir Gly Cys Xaa' Cys Pro Gly Thir Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Xaa' Thir Gly Cys Xaa' Cys Pro Gly Thir Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Xaa' Thir Gly Cys Xaa' Cys Pro Gly Thir Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Thir Xaa' Xaa' Gly Cys Xaa' Pro Gly Thir Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Thir Xaa' Xaa' Gly Cys Xaa' Pro Gly Thir Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Thir Xaa' Xaa' Gly Cys Pro Gly Thir Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Thir Xaa' Xaa' Gly Cys Pro Gly Thir Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Thir Xaa' Xaa' Gly Cys Xaa' Pro Gly Thir Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Thir Xaa' Xaa' Gly Cys Xaa' Pro Gly Thir Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Thir Xaa' Xaa' Gly Cys Xaa' Pro Gly Thir Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Thir Xaa' Xaa' Gly Cys Xaa' Pro Gly Thir Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Thir Xaa' Gly Cys Xaa' Xaa' Cys Pro Gly Thir Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Thir Xaa' Gly Cys Xaa' Xaa' Cys Pro Gly Thir Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Thir Xaa' Gly Cys Xaa' Xaa' Cys Pro Gly Thir Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Thir Cys Thir Xaa' Cys Xaa' Xaa' Cys Pro Gly Thir Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Thir Gly Cys Xaa' Xaa' Cys Pro Gly Thir Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Thir Gly Cys Xaa' Xaa' Cys Pro Gly Thir Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Thir Gly Cys Xaa' Xaa' Pro Gly Thir Cys Gly X	Gly Thr Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Xaa' Thr Xaa' Gly Cys Gly Thr Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Xaa' Thr Xaa' Kaa' Gly Thr Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Xaa' Thr Xaa' Gly Xaa' Gly Thr Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Xaa' Thr Xaa' Gly Cys XGly Thr Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Xaa' Thr Gly Xaa' Cys Cly Thr Cys Gly Xaa' Glu Ile Cys Ala Tyr Ala Ala Cys Xaa' Thr Gly Xaa' Cys

FIG. 4 (sheet 75 of 114)

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Xaa' Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Cys Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys	le Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly	Xaa' Ile Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Xaa' Ile Cys Ala Tyr Ala Ala Cys Xaa' Thr Gly Cys	' Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly	' Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa'	Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Cys	' Cys	Xaa' Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly	Xaa' Cys Ala Xaa' Tyr Ala Ala Cys Thr Gly	Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly	Asa' Cys Ala Tyr Ala Ala Xaa' Cys Thr	Xaa' Cys Ala Tyr Ala Ala Cys Xaa' Thr Gly	Ile Xaa' Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys	Ile Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys	Ile Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa'	Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys	Ile Cys Xaa' Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys	Ile Cys Xaa' Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys	Ile Cys Xaa' Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys	Ile Cys Xaa' Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys	Ile Cys Xaa' Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys	Ile Cys Xaa' Ala Tyr Ala Ala Cys Xaa' Thr Gly Cys	Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys	Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys	Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa'	Ile Cys Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys	e Cys Ala Xaa' Xaa' Tyr Ala Ala Cys Thr Gly	e Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thr Gly	Ile Cys Ala Xaa' Tyr Ala Xaa' Ala Cys Thr Gly Cys
Xaa 'Xaa 'Xaa '	_	Xaa' Xaa'	_		Xaa' Xaa'	Xaa'	Xaa¹	Xaa'	Xaa'	Aaa' Xaa'	Xaa'	Xaa'	Xaa'	Xaa'	Xaa'	Xaa	Xaa'	Xaa'	Xaa	Xaa'	Xaa'	Xaa'	Xaa'	Xaa'	Xaa	Xaa	Xaa'	Xaa '
Cys Gly Glu Xaa' Cys Gly Glu Xaa' Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa' Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa' Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'

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(SEQID NO:		(SEQID NO:		(SEQID NO:
Xaa' Ile Cys Ala Xaa' Tyr Ala Ala Cys Xaa' Thr Gly Cys Xaa' Ile Cys Ala Xaa' Tyr Ala Ala Cys Thr Kaa' Gly Cys Xaa' Ile Cys Ala Xaa' Tyr Ala Ala Cys Thr Xaa' Gly Cys Xaa' Ile Cys Ala Xaa' Tyr Ala Ala Cys Thr Gly Xaa' Cys Xaa' Ile Cys Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys Xaa' Xaa' Ile Cys Ala Xaa' Ile Cys Ala Xaa' Ala Ala Cys Thr Gly Cys Xaa' Xaa' Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys Xaa'	Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Ile Cys Ala Tyr Xaa' Ala Xaa' Ala Cys Thr Gly Ile Cys Ala Tyr Xaa' Ala Ala Xaa' Cys Thr Gly Ile Cys Ala Tyr Xaa' Ala Ala Cys Xaa' Thr Gly Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Kaa' Gly Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Xaa' Gly	Xaa' Ile Cys Ala Tyr Xaa' Ala Ala Cys Inr Gly Xaa' Cys Xaa' Xaa' Ile Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys Xaa' Xaa' Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys Xaa' Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys Xaa' Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys Xaa' Ile Cys Ala Tyr Ala Xaa' Ala Cys Xaa' Thr Gly Cys Xaa' Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr Xaa' Gly Cys Xaa' Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr Kaa' Gly Cys Xaa' Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Xaa' Cys	Ille Cys Ala Tyr Ala Xaa' Ala Cys IIII Gly Add' Ille Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Ille Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Ille Cys Ala Tyr Ala Ala Xaa' Cys Xaa' Thr Gly Ille Cys Ala Tyr Ala Ala Xaa' Cys Thr Xaa' Gly Ille Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Xaa' Ille Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Xaa' Ille Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Xaa' Ille Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys X	Xaa' Ile Cys Ala Tyr Ala Ala Cys Xaa' Thr Gly Cys Xaa' Ile Cys Ala Tyr Ala Ala Cys Xaa' Xaa' Thr Gly Cys Xaa' Ile Cys Ala Tyr Ala Ala Cys Xaa' Thr Gly Xaa' Cys Xaa' Ile Cys Ala Tyr Ala Ala Cys Xaa' Thr Gly Xaa' Cys Xaa' Ile Cys Ala Tyr Ala Ala Cys Xaa' Thr Gly Cys Xaa' Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Xaa' Cys
Gly Thr Cys Gly Glu Xaa' Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Xaa' Xaa' Xaa' Xaa' Xaa'	Gly Thr Cys Gly Glu Xaa' Gly Thr Cys Gly Glu Xaa'

FIG. 4 (sheet 77 of 114)

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Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys Xaa' Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys Xaa' Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Xaa' Cys Xaa' Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys Xaa' Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Xaa' Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Xaa' Xaa' Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Xaa' Ile Xaa' Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Xaa' Ile Xaa' Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xa	Gly Thr Cys Gly Glu Xaa' Ile Xaa' Cys Ala Xaa' Tyr Ala Ala Cys Thr Gly Thr Cys Gly Glu Xaa' Ile Xaa' Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thr Gly Thr Cys Gly Glu Xaa' Ile Xaa' Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thr Gly Thr Cys Gly Glu Xaa' Ile Xaa' Cys Ala Xaa' Tyr Ala Xaa' Ala Cys Thr Gly Thr Cys Gly Glu Xaa' Ile Xaa' Cys Ala Xaa' Tyr Ala Ala Xaa' Cys Thr Gly Thr Cys Gly Glu Xaa' Ile Xaa' Cys Ala Xaa' Tyr Ala Ala Cys Xaa' Thr Gly Thr Cys Gly Glu Xaa' Ile Xaa' Cys Ala Xaa' Tyr Ala Ala Ala Cys Xaa' Thr

FIG. 4	(sheet 78 of 114)
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Cys Ala Xaa' Tyr Ala Ala Cys Thr Xaa' Gly Cys Cys Ala Xaa' Tyr Ala Ala Cys Thr Gly Xaa' Cys	Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys X	Ala Tyr Xaa' Ala Ala Cys Thr Gly	Xaa' Xaa' Ala Ala Cys	' Cys Ala Tyr Xaa' Ala Xaa' Ala Cys Thr Gly Cys	' Cys Ala Tyr Xaa' Ala Ala Xaa' Cys Thr Gly Cys	' Cys Ala Tyr Xaa' Ala Ala Cys Xaa' Thr Gly Cys	' Cys Ala Tyr Xaa' Ala Ala Cys Thr Xaa' Gly Cys	' Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Xaa' Cys	' Cys Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys Xaa'	' Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys	' Cys Ala Tyr Ala Xaa' Xaa' Ala Cys Thr Gly Cys	' Cys Ala Tyr Ala Xaa' Ala Xaa' Cys Thr Gly Cys	' Cys Ala Tyr Ala Xaa' Ala Cys Xaa' Thr Gly Cys	' Cys Ala Tyr Ala Xaa' Ala Cys Thr Xaa' Gly Cys	' Cys Ala Tyr Ala Xaa' Ala Cys Thr	' Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys Xaa'	' Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys	' Cys Ala Tyr Ala Ala Xaa' Xaa' Cys Thr Gly Cys	' Cys Ala Tyr Ala Ala Xaa' Cys Xaa' Thr Gly Cys	' Cys Ala Tyr Ala Ala Xaa' Cys Thr	' Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly	' Cys Ala Tyr Ala Ala Xaa' Cys Thr	' Cys Ala Tyr Ala Ala Cys Xaa' Thr Gly	' Cys Ala Tyr Ala Ala Cys Xaa' Xaa' Thr Gly	' Cys Ala Tyr Ala Ala Cys Xaa' Thr Xaa' Gly Cys	' Cys Ala Tyr Ala Ala Cys Xaa' Thr Gly Xaa'	' Cys Ala Tyr Ala Ala Cys Xaa' Thr Gly Cys Xaa'	' Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys	' Cys Ala Tyr Ala Ala Cys Thr Xaa'	' Cys Ala Tyr Ala Ala Cys Thr Xaa'	' Cys Ala Tyr Ala Ala Cys Thr	' Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys	
Ile Xaa		Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	Ile Xaa	
Pro Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	

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e Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' e Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Xaa'	Ile Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Ile Xaa' Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Xaa'	Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys	Cys Add' Add' Aid iyr Aid Aid Cys IIII Cys Xad' Xad' Ald Tyr Ald Ald Cys	Ile Cys Xaa' Xaa' Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys	Cys Xaa' Xaa' Ala Tyr Xaa' Ala Ala Cys Thr Gly	Cys Xaa' Xaa' Ala Tyr Ala Xaa' Ala Cys Thr Gly	Cys Xaa' Xaa' Ala Tyr Ala Ala Xaa' Cys Thr Gly	Cys Xaa' Xaa' Ala Tyr Ala Ala Cys Xaa' Thr Gly	Tyr Ala Ala Cys Thr Xaa' Gly	lle Cys Xaa' Xaa' Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys	Ile Cys Xaa' Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa'	Ile Cys Xaa' Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys	Ile Cys Xaa' Ala Xaa' Xaa' Tyr Ala Ala Cys Thr Gly Cys	Ile Cys Xaa' Ala Xaa' Tyr Xaa' Ala Ala Cys Thr Gly Cys	Ile Cys Xaa' Ala Xaa' Tyr Ala Xaa' Ala Cys Thr Gly Cys	Ile Cys Xaa' Ala Xaa' Tyr Ala Ala Xaa' Cys Thr Gly Cys	Ile Cys Xaa' Ala Xaa' Tyr Ala Ala Cys Xaa' Thr Gly Cys	Ile Cys Xaa' Ala Xaa' Tyr Ala Ala Cys Thr Xaa' Gly Cys	Ile Cys Xaa' Ala Xaa' Tyr Ala Ala Cys Thr Gly Xaa' Cys	Ile Cys Xaa' Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys Xaa'	Tyr Xaa' Ala Ala Cys 1	' Ala Ala Cys Thr	Ile Cys Xaa' Ala Tyr Xaa' Ala Xaa' Ala Cys Thr Gly Cys	Cys Xaa' Ala Tyr Xaa' Ala Ala Xaa' Cys Thr	Ile Cys Xaa' Ala Tyr Xaa' Ala Ala Cys Xaa' Thr Gly Cys	Ile Cys Xaa' Ala Tyr Xaa' Ala Ala Cys Thr Xaa' Gly Cys	Ile Cys Xaa' Ala Tyr Xaa' Ala Ala Cys Thr Gly Xaa' Cys	Tyr Xaa' Ala Ala Cys Thr	Ile Cys Xaa' Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys	Ile Cys Xaa' Ala Tyr Ala Xaa' Xaa' Ala Cys Thr Gly Cys
	Gly Thr Cys Gly Glu Xaa' Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'	Gly Thr Cys Gly Glu Xaa'			

FIG. 4 (sheet 80 of 114)

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m GLy}$ Pro Pro

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FIG. 4	(sheet 86 of 114)

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m GLy}$ GLy $_{
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m GLy}$ GlyGLyG1yGlyGlyGLYGly ${\tt Gly}$ GlyGlyPro Pro Pro

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Glv Thr Cvs	Cys Gly Glu Ile	Gly Thr Cys Gly Glu Ile Xaa'	Gly Thr Cys Gly Glu Ile Xaa'	Gly Thr Cys Gly Glu Ile Xaa'	Gly Thr Cys Gly Glu Ile Xaa'	Gly Thr Cys Gly Glu Ile Xaa'	Gly Thr Cys Gly Glu Ile Xaa'	Gly Thr Cys Gly Glu Ile Xaa'	Gly Thr Cys Gly Glu Ile Xaa'	Gly Thr Cys Gly Glu Ile Xaa'	Gly Thr Cys Gly Glu Ile Xaa'	Gly Thr Cys Gly Glu Ile Xaa'	Gly Thr Cys Gly Glu Ile Xaa'	Gly Thr Cys Gly Glu Ile Xaa'	Gly Thr Cys Gly Glu Ile Xaa'	Gly Thr Cys Gly Glu Ile Xaa'	Gly Thr Cys Gly Glu Ile Xaa'	Gly Thr Cys Gly Glu Ile Xaa'	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys Gly Glu Ile Xaa'	Gly Thr Cys Gly Glu Ile Xaa'	Gly Thr Cys Gly Glu Ile Xaa'	Gly Thr Cys Gly Glu Ile Xaa'	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys

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m yr}$  $\mathtt{T}\mathtt{yr}$ TyrTyrTyrTyxTyrTyrTyrTyrTyr $\mathrm{Tyr}$ TyrTyrTyrTyrTyrTyrTyrTyrTyrTyrTyrAla Ala Cys CysCys Cys Cys Cys СУS Cys Xaa' Xaa Xaa' Xaa t Xaa' Xaa Xaa Xaa Xaa' Xaa' Xaa Xaa' Xaa' Xaa1 Xaa' Xaa' Xaa' Xaa' Xaa Ile Ile Ile Ile Ile Ile I1eIle Ile Ile Glu Glu Glu Glu Glu Glu g1nGlu GlyGly G1yGlyGLYG1yGlyGLy ${\tt Gly}$ GLyGlyGlyG1yG1yGLyG1yGLYG1yGLyGlyG1yCys Cys Cys Cys Cys Cys Cys Cys Cys Cys  $\operatorname{Th} x$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\mathtt{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$ Thr GLYG1yGly GLy $_{
m G1y}$ GlyGLyGlyGlyGlyGlyG1yGlyG1y $_{
m G1y}$ Gly ${\tt GLy}$  $\mathtt{Gly}$ GlyGlyPro Pro Pro

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FIG. 4 (sheet 92 of 114)

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Gly Thr. Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Xaa' Ala Cys Xaa' Thr Xaa' Gly Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Xaa' Ala Cys Xaa' Thr Gly Xaa' Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Xaa' Ala Cys Xaa' Thr Xaa' Gly Cys Xaa' Gly Thr. Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Xaa' Ala Cys Thr Xaa' Gly Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Xaa' Ala Cys Thr Xaa' Gly Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Xaa' Ala Cys Thr Xaa' Gly Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Xaa' Ala Cys Thr Xaa' Gly Cys Xaa' Cly Thr. Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Xaa' Ala Cys Thr Cay Gly Glu Ile Xaa' Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Xaa' Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Xaa' Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Xaa' Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Xaa' Cys Xaa' Gly Thr. Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Xaa' Cys Xaa' Gly Thr. Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys Xaa' Gly Thr. Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys Xaa' Gly Thr. Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Ala Xaa' Ala Cys Thr Gly Cys Xaa' Gly Thr. Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Ala Xaa' Xaa' Cys Thr Gly Cys Xaa' Gly Thr. Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Ala Xaa' Xaa' Cys Thr Gly Cys Gly Thr. Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Ala Xaa' Xaa' Cys Thr Gly Cys Xaa' Gly Thr. Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Ala Xaa' Xaa' Cys Thr Gly Cys Gly Thr. Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Ala Xaa' Xaa' Cys Thr Gly Cys Xaa' Gly Thr. Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Ala Xaa' Xaa' Cys Thr Gly Cys Gly Thr. Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Ala Xaa' Xaa' Cys Thr Gly Cys Xaa' Gly Thr. Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Ala Xaa' Xaa' Cys Thr Gly Cys Xaa' Gly Thr. Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Ala Xaa' Cys Xaa' Thr Gly Cys Gly Thr. Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Ala Xaa' Cys Xaa' Thr Gly Cys Cly Gly Thr. Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Ala Xaa' Cys Xaa' Thr Gly Cys Gly Gly Thr. Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Ala Xaa' Cys Thr Kaa' Gly Cys Gly Glu Ile Xaa' Cys Ala Tyr Ala Al	Gly Thr Cys Gly Glu 11e Xaa' Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Xaa' Cys Xaa' Gly Thr Cys Gly Glu I1e Xaa' Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Xaa' Cys Xaa' Gly Thr Cys Gly Glu I1e Xaa' Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Xaa' Gly Thr Cys Gly Glu I1e Xaa' Cys Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys Xaa' Xaa' Gly Thr Cys Gly Glu I1e Xaa' Cys Ala Tyr Ala Ala Cys Xaa' Thr Gly Cys
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FIG. 4 (sheet 93 of 114)

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m GLy}$  $_{
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m Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Cys CysCys Cys Cys Ċys Cys Cys CysCys Cys Cys Ala  $\operatorname{Tyr}$  $\operatorname{Tyr}$ Tyr $\mathbf{T}\mathbf{y}\mathbf{r}$ TyrTyrTyrTyrTyr $\operatorname{Tyr}$ Tyr $\mathbb{T} Y Y$ TyrTyrTyrTyrTyrTyrTYrTYTTyrAla Ala Cys Ala Ala Cys Cys Cys Cys Cys Cys Cys Cys Ċys Cys CysCys Cys Cys Cys Xaa' Xaa' Xaa' Xaa' Xaa Xaa' Xaa Xaa' Xaa Xaa 1 Xaa' Xaa Xaa' Xaa' Xaa 1 Xaa' Xaa' Xaa' Xaa' Xaa' Xaa' Xaa' Xaa' Cys Xaa' Ile 11e Ile Ile Ile Ile I1eIle Ile Ile Ile Glu Glu Glu Glu Glu Glu Glu Glu GluGlu Glu Glu Glu Glu gluGlu GLyGly G1yG1yGly GLyGLyGly GlyGlyG1yGLyGly $_{
m G1y}$ GlyGlyGlyG1y $\mathtt{Gly}$ GLyGly GLYGlyG1yGlyG1yCys Cys  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\mathtt{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ GLyG1yGLyGly $_{
m GLY}$  $_{
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m GLy}$ GlyGly $_{\rm Gly}$ GlyG1y $_{\rm GLy}$ G1yGlyG1y ${\tt Gly}$ GLyGlyPro Pro Pro

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Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys	Xaa' Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys	Xaa' Xaa' Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys	Xaa' Xaa' Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys	Xaa' Xaa' Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys	Xaa' Xaa' Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys	Xaa' Xaa' Ala Tyr Ala Ala Xaa' Cys Thr Gly Cys	Xaa' Xaa' Ala Tyr Ala Ala Cys Xaa' Thr Gly Cys	Xaa' Xaa' Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys	Xaa' Xaa' Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys	Xaa' Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa'	Xaa' Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys	Xaa' Ala Xaa' Xaa' Tyr Ala Ala Cys Thr Gly Cys	Xaa' Ala Xaa' Tyr Xaa' Ala Ala Cys Thr Gly Cys	Xaa' Ala Xaa' Tyr Ala Xaa' Ala Cys Thr Gly Cys	Xaa' Ala Xaa' Tyr Ala Ala Xaa' Cys Thr Gly Cys	Xaa' Ala Xaa' Tyr Ala Ala Cys Xaa' Thr Gly Cys	Xaa' Ala Xaa' Tyr Ala Ala Cys Thr Xaa' Gly Cys	Xaa' Ala Xaa' Tyr Ala Ala Cys Thr Gly Xaa' Cys	Xaa' Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys Xaa'	Xaa' Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys	Xaa' Ala Tyr Xaa' Xaa' Ala Ala Cys Thr Gly Cys	Xaa' Ala Tyr Xaa' Ala Xaa' Ala Cys Thr Gly Cys	Xaa' Ala Tyr Xaa' Ala Ala Xaa' Cys Thr Gly Cys	Xaa' Ala Tyr Xaa' Ala Ala Cys Xaa' Thr Gly Cys	Xaa' Ala Tyr Xaa' Ala Ala Cys Thr Xaa' Gly Cys	Xaa' Ala Tyr Xaa' Ala Ala Cys Thr Gly Xaa' Cys	Xaa' Ala Tyr Xaa' Ala Ala Cys Thr Gly Cys Xaa'	Xaa' Ala Tyr Ala Xaa' Ala Cys Thr Gly Cys	Xaa' Ala Tyr Ala Xaa' Xaa' Ala Cys Thr Gly Cys	Xaa' Ala Tyr Ala Xaa' Ala Xaa' Cys Thr Gly Cys	Xaa' Ala Tyr Ala Xaa' Ala Cys Xaa' Thr Gly Cys	Tyr Ala Xaa' Ala Cys Thr Xaa' Gly	Xaa' Ala Tyr Ala Xaa' Ala Cys Thr Gly Xaa' Cys
Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly Glu	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys	Gly Thr Cys Gly	Gly Thr Cys Gly	Gly Thr Cys	Gly Thr Cys Gly	Gly Thr Cys	Gly Thr Cys	Pro Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys										

FIG. 4 (sheet 95 of 114

eigy the Cys eigy cliu lie Cys Xaa' Xaa' Ala Tyr Ala Ala Xaa' Cys thr cigy Cys (SEOID NO. eigy the Cys eigy cliu lie Cys Xaa' Xaa' Ala Tyr Ala Ala Xaa' Cys Thr cigy Cys (SEOID NO. eigy the Cys eigy cliu lie Cys Xaa' Xaa' Ala Tyr Ala Ala Xaa' Cys Thr Cigy Cys (SEOID NO. eigy the Cys eigy cliu lie Cys Xaa' Xaa' Ala Tyr Ala Ala Xaa' Cys Thr Xaa' Cys Thr Cigy Cys (SEOID NO. eigy the Cys eigy cliu lie Cys Xaa' Xaa' Ala Tyr Ala Ala Xaa' Cys Thr Cigy Cys (SEOID NO. eigy the Cys eigy cliu lie Cys Xaa' Xaa' Ala Tyr Ala Ala Cys Xaa' Thr cigy Xaa' Cys (SEOID NO. eigy the Cys eigy cliu lie Cys Xaa' Xaa' Ala Tyr Ala Ala Cys Xaa' Thr cigy Cys Xaa' (SEOID NO. eigy the Cys eigy cliu lie Cys Xaa' Xaa' Ala Tyr Ala Ala Cys Xaa' Thr cigy Cys Xaa' (SEOID NO. eigy the Cys eigy cliu lie Cys Xaa' Xaa' Ala Tyr Ala Ala Cys Xaa' Thr cigy Cys (SEOID NO. eigy the Cys eigy cliu lie Cys Xaa' Xaa' Ala Tyr Ala Ala Cys Xaa' Thr Cigy Cys (SEOID NO. eigy Thr Cys eigy cliu lie Cys Xaa' Xaa' Ala Tyr Ala Ala Cys Xaa' Thr Cigy Cys (SEOID NO. eigy Thr Cys eigy cliu lie Cys Xaa' Xaa' Ala Tyr Ala Ala Cys Xaa' Thr Xaa' Cys (SEOID NO. eigy Thr Cys eigy cliu lie Cys Xaa' Xaa' Ala Tyr Ala Ala Cys Thr Xaa' Cys (SEOID NO. eigy Thr Cys eigy cliu lie Cys Xaa' Xaa' Ala Tyr Ala Ala Cys Thr Xaa' Cys (SEOID NO. eigy Thr Cys eigy cliu lie Cys Xaa' Xaa' Ala Tyr Ala Ala Cys Thr Xaa' Cys (SEOID NO. eigy Thr Cys eigy cliu lie Cys Xaa' Xaa' Ala Tyr Ala Ala Cys Thr Xaa' Cys (SEOID NO. eigy Thr Cys eigy cliu lie Cys Xaa' Xaa' Ala Tyr Ala Ala Cys Thr Xaa' Cys (SEOID NO. eigy Thr Cys eigy cliu lie Cys Xaa' Ala Tyr Ala Ala Cys Thr Cigy Xaa' Cys (SEOID NO. eigy Thr Cys eigy cliu lie Cys Xaa' Ala Tyr Ala Ala Cys Thr Cigy Xaa' Cys (SEOID NO. eigy Thr Cys eigy cliu lie Cys Xaa' Ala Tyr Ala Ala Cys Thr Cigy Xaa' Cys (SEOID NO. eigy Thr Cys eigy cliu lie Cys Xaa' Ala Xaa' Xaa' Tyr Ala Ala Cys Thr Cig Cys Xaa' (SEOID NO. eigy Thr Cys eigy cliu lie Cys Xaa' Ala Xaa' Xaa' Tyr Ala Ala Cys Thr Cig Cys Thr Cig Cys Cig Cliu lie Cys Xaa' Ala Xaa' Xaa' Tyr Ala Ala Cys Thr Cig Cys Thr Cys ei	~		<u> </u>	<u> </u>	<u> </u>	_	_	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	_	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	_ ^	_
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FIG. 4 (sheet 96 of 114)

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(SEQID NO:	SEQID NO:
Tyr Xaa' Ala Ala Cys Thr Gly Cys Xaa' Tyr Ala Xaa' Ala Cys Thr Gly Cys Tyr Ala Ala Xaa' Tys Thr Gly Cys Tyr Ala Ala Cys Xaa' Thr Gly Cys Xaa' Tyr Ala Ala Cys Thr Xaa' Gly Cys Tyr Ala Ala Cys Thr Xaa' Gly Cys Tyr Ala Ala Cys Thr Xaa' Gly Cys Xaa' Tyr Ala Ala Cys Thr Xaa' Gly Cys Xaa' Tyr Ala Ala Cys Thr Xaa' Gly Cys Xaa' Tyr Ala Ala Cys Thr Xaa' Gly Xaa' Cys Tyr Ala Ala Cys Thr Gly Cys Xaa'	Xaa' Ala Ala Cys Thr
	TYT
Cys Cys Cys Cys Cys Cys Cys Cys Cys	Cys Xaa'
Gly Glu Ile	Glu
Thr Cys G	Cys
Pro Gly	GLY

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m G1y}$ GLy ${\tt GLy}$ Gly $_{\rm Gly}$ GlyG1yCys Cys Cys Cys Cys Cys $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\mathtt{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$  ${\tt Gly}$ G1yGlyG1yGLyGLyGLYGly $\mathtt{Gly}$ Gly Gly G1yG1yGlyGlyGly ${\tt Gly}$ GlyGlyGLYPro Pro Pro

(sheet 97 of 114)

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Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys	Gly Thr Cys Gly		

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Ala Xaa' Xaa'	Ala Xaa' Cys	Ala Xaa' Cys	a Ala Xaa' Cys	Ala Ala Xaa' Cys	Ala Ala Xaa' Cys	Ala Ala Xaa' Cys	Ala Ala Xaa' Cys	Ala Ala Xaa' Cys	Ala Ala Xaa' Cys	Ala Ala Xaa' Cys	Ala Ala Xaa' Cys	Ala Ala Xaa' Cys	Ala Ala Xaa' Cys	Ala Ala Cys Xaa'	Ala Ala Cys Xaa'	Ala Ala Cys Xaa'	Ala Ala Cys Xaa'	Ala Ala Cys Xaa'	Ala Ala Cys Xaa'	Ala Ala Cys Xaa'	Ala Ala Cys Xaa'	Ala Ala Cys Xaa'	Ala Ala Cys Xaa'	Ala Ala Cys Xaa'	Ala Ala Cys Xaa'	Ala Ala Cys Xaa'	Ala Ala Cys Xaa'	Ala Ala Cys Xaa'	Ala Cys Thr	Ala Cys Thr	a Ala Cys Thr	a Ala Cys Thr	FIG. 4 (sheet 99 of 114)	
Ala	Ald Lyr	' Ala Tyr	'Ala'	' Ala Tyr	' Ala Tyr	' Ala Tyr	' Ala Tyr	' Ala Tyr	' Ala Tyr	' Ala Tyr	' Ala Tyr	' Ala Tyr	' Ala Tyr	' Ala Tyr	' Ala Tyr	' Ala Tyr	' Ala Tyr	' Ala Tyr	' Ala Tyr	' Ala Tyr	' Ala Tyr	' Ala Tyr	' Ala Tyr	' Ala Tyr	' Ala Tyr	' Ala Tyr	' Ala Tyr	' Ala Tyr	' Ala Tyr	' Ala Tyr	' Ala Tyr	a' Ala Tyr Al		
Ile Cys	u lle Cys Add n Tle Cys Yee	Ile Cys	Ile	lu Ile Cys Xaa	lu Ile Cys Xaa	lu Ile Cys Xaa	lu Ile Cys Xaa	lu Ile Cys Xaa	lu Ile Cys Xaa	lu Ile Cys Xaa	lu Ile Cys Xaa	lu Ile Cys Xaa	lu Ile Cys Xaa	lu Ile Cys Xaa	lu Ile Cys Xaa	lu Ile Cys Xaa	lu Ile Cys Xaa	lu Ile Cys Xaa	lu Ile Cys Xaa	lu Ile Cys Xaa	lu Ile Cys Xaa	lu Ile Cys Xaa	lu Ile Cys Xaa	lu Ile Cys Xaa	lu Ile Cys Xaa	lu Ile Cys Xaa	lu Ile Cys Xaa	lu Ile Cys Xaa		lu Ile Cys Xaa	lu Ile Cys Xaa	lu Ile Cys Xaa		
Thr Cys Gly Glu	Cys Gly	CVS GlV	cys Gly	Cys Gly	Cys Gly	Cys Gly	Cys Gly	Cys Gly	Cys Gly	Cys Gly	Cys Gly	Cys Gly	Cys Gly	Cys Gly	Cys Gly	Cys Gly	Cys Gly	Cys Gly	Cys Gly	Cys Gly	Cys Gly	Cys Gly	Cys Gly	Cys Gly	Cys Gly	Cys Gly	Cys Gly	Cys Gly	Cys Gly	Cys Gly	Cys Gly	Cys Gly		
Pro Gly T	7.7.5 7.7.5 7.7.5 7.7.5	G1.v	Gly	$\bar{\tt Gly}$	Gly	Gly	$GL_{Y}$	$_{ m G1y}$	$\mathtt{Gly}$	Gly	${\tt Gly}$	$\mathtt{Gly}$	Gly	G1y	G1y	Gly	$\mathtt{Gly}$	G1y	$_{ m G1y}$	$^{-}$ GLy	$^{-}$ G1 $^{\circ}$	$^{-}$ G1 $^{-}$	$_{ m G1y}$	$\mathtt{Gly}$	$\mathtt{Gly}$	$_{ m Gly}$	Gly	GLy	${\tt Gly}$	${\tt Gly}$	${\tt Gly}$	${\tt Gly}$		

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Cys Xaa' Ala Tyr Ala Ala Cys Thr Xaa' Xaa' Gly Cys Xaa'	GIY Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Xaa' Gly Xaa' Xaa' Cys (	Gly Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Xaa' Gly Xaa' Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys Xaa' Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys	Gly Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Xaa' Xaa' Cys	Gly Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Xaa' Xaa' Cys (	Gly Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Xaa' Xaa' Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys Xaa' Xaa'	Gly Thr Cys Gly	Gly Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Xaa'	Gly Thr Cys Gly Glu Ile Cys Xaa' Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Xaa' Xaa'	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Ala Ala Cys Thr Gly Cys	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Xaa' Tyr Ala Ala Cys Thr Gly Cys	Gly Thr Cys Gly	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Xaa' Xaa' Tyr Ala Ala Cys Thr	Gly Thr Cys Gly	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Xaa' Xaa' Tyr Ala Xaa' Ala Cys Thr Gly Cys	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Xaa' Xaa' Tyr Ala Ala Xaa' Cys Thr Gly Cys	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Xaa' Xaa' Tyr Ala Ala Cys Xaa' Thr Gly Cys	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Xaa' Xaa' Tyr Ala Ala Cys Thr Xaa' Gly Cys	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Xaa' Tyr Ala Ala Cys Thr Gly Xaa' Cys	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Xaa' Xaa' Tyr Ala Ala Cys Thr Gly Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Xaa' Tyr Xaa' Ala Ala Cys Thr Gly C	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Xaa' Tyr Xaa' Xaa' Ala Ala Cys Thr	Gly Thr Cys Gly	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Xaa' Tyr Xaa' Ala Ala Xaa' Cys Thr	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Xaa' Tyr Xaa' Ala Ala Cys Xaa' Thr	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Xaa' Tyr Xaa' Ala Ala Cys Thr	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Xaa' Tyr Xaa' Ala Ala Cys Thr Gly Xaa' Cys	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Xaa' Tyr Xaa' Ala Ala Cys Thr Gly Cys Xaa'	FIG. 4	(sheet 100 of 114)

Pro Gly Thir Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thir Gly Cys Xaa' (SEOID NO. Pro Gly Thir Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Xaa' Ala Cys Thir Gly Cys Xaa' (SEOID NO. Pro Gly Thir Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Xaa' Ala Cys Thir Gly Cys (SEOID NO. Pro Gly Thir Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Xaa' Ala Cys Thir Gly Cys (SEOID NO. Pro Gly Thir Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Xaa' Ala Cys Thir Gly Cys (SEOID NO. Pro Gly Thir Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Xaa' Ala Cys Thir Gly Cys (SEOID NO. Pro Gly Thir Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Xaa' Ala Cys Thir Gly Cys (SEOID NO. Pro Gly Thir Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Xaa' Cys Thir Gly Cys (SEOID NO. Pro Gly Thir Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Xaa' Cys Thir Gly Cys (SEOID NO. Pro Gly Thir Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Xaa' Cys Thir Gly Cys (SEOID NO. Pro Gly Thir Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Xaa' Cys Thir Gly Cys (SEOID NO. Pro Gly Thir Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Xaa' Cys Thir Gly Cys (SEOID NO. Pro Gly Thir Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Xaa' Cys Thir Gly Cys (SEOID NO. Pro Gly Thir Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Xaa' Cys Thir Gly Cys (SEOID NO. Pro Gly Thir Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Xaa' Cys Thir Gly Cys (SEOID NO. Pro Gly Thir Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Xaa' Thir Gly Cys (SEOID NO. Pro Gly Thir Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Xaa' Thir Gly Cys (SEOID NO. Pro Gly Thir Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Xaa' Thir Gly Cys (SEOID NO. Pro Gly Thir Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thir Xaa' Gly Cys (SEOID NO. Pro Gly Thir Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thir Xaa' Gly Cys (SEOID NO. Pro Gly Thir Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thir Xaa' Cys (SEOID NO. Pro Gly Thir Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thir Xaa' Gly Cys Xaa' (SEOID NO. Pro Gly Thir Cys	~ ~	` ~	_	<u> </u>	<u> </u>	<u> </u>	-	_	_	<u> </u>	- I	<u> </u>	<u> </u>	<u> </u>	<u> </u>	· 	<u> </u>	<u> </u>	<u> </u>	<u> </u>	_	<u> </u>	<u> </u>	<u> </u>	_	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Gly Thr. Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thr Gly Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Xaa' Ala Cys Thr Gly Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Xaa' Ala Cys Thr Gly Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Xaa' Ala Zaa' Cys Thr Gly Gly Thr. Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Xaa' Ala Zaa' Cys Thr Gly Gly Thr. Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Xaa' Ala Cys Thr Gly Gly Thr. Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Xaa' Ala Cys Thr Gly Gly Thr. Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Xaa' Ala Cys Thr Gly Gly Thr. Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Xaa' Ala Cys Thr Gly Cly Thr. Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Xaa' Cys Thr Gly Cly Thr. Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Xaa' Cys Thr Gly Gly Thr. Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Xaa' Cys Thr Gly Gly Thr. Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Xaa' Cys Thr Gly Gly Thr. Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Xaa' Cys Thr Gly Gly Thr. Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Xaa' Cys Thr Gly Gly Thr. Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Xaa' Cys Thr Gly Gly Thr. Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Xaa' Cys Thr Gly Gly Thr. Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Xaa' Thr Gly Cys Gly Thr. Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Xaa' Thr Gly Cly II Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Xaa' Thr Gly Cys Gly Thr. Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Xaa' Thr Gly Cys Gly Thr. Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Xaa' Thr Gly Cys Gly Thr. Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thr Xaa' Gly Gly Thr. Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thr Xaa' Gly Cly Thr. Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thr Xaa' Gly Cly Thr. Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thr Xaa' Gly Cly Thr. Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thr Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thr Gly Xaa' Gly Thr. Cys Gly Glu IIe Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thr Gly Xaa'	_		(SEQID NO:				(SEQID NO:						(SEQID NO:	(SEQID NO:	(SEQID NO:				(SEQID NO:	(SEQID NO:	(SEQID NO:				(SEQID NO:	(SEQID NO:	(SEQID NO:	(SEQID NO:	(SEQID NO:	(SEQID NO:	(SEQID NO:	(SEQID NO:	
	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Xaa' Ala Ala Cys Thr Gly Xaa' Cys (	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Xaa' Ala Cys Thr Gly Cys (	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Xaa' Aaa' Aaa Cys Thr Gly Cys	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Xaa' Ala Xaa' Cys Thr Gly Cys (	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Xaa' Ala Cys Xaa' Thr Gly Cys	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Xaa' Ala Cys Thr Xaa' Gly Cys	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Xaa' Ala Cys Thr Gly Xaa' Cys	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Xaa' Ala Cys Thr Gly Cys Xaa' (	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Ala Xaa' Cys Thr Gly Cys	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Ala Xaa' Xaa' Cys Thr Gly Cys	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Ala Xaa' Cys Xaa' Thr Gly Cys	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Ala Xaa' Cys Thr Xaa' Gly Cys (	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Ala Xaa' Cys Thr Gly Xaa' Cys	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Ala Xaa' Cys Thr Gly Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Xaa' Thr Gly Cys	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Xaa' Xaa' Thr Gly Cys	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Xaa' Thr Xaa' Gly Cys (	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Xaa' Thr Gly Xaa' Cys (	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Xaa' Thr Gly Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thr Xaa' Gly Cys	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thr Xaa' Xaa' Gly Cys (	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thr Xaa' Gly Xaa' Cys	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thr Xaa' Gly Cys Xaa' (	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thr Gly Xaa' Cys	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thr Gly Xaa' Xaa' Cys	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thr Gly Xaa' Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thr Gly Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Xaa' Ala Ala Cys Thr Gly Cys Xaa' Xaa' (	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Ala Xaa' Ala Cys Thr Gly Cys	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Ala Xaa' Xaa' Ala Cys Thr Gly Cys	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Ala Xaa' Xaa' Xaa' Ala Cys Thr Gly Cys	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Ala Xaa' Xaa' Ala Xaa' Cys Thr Gly Cys (	Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Tyr Ala Xaa' Xaa' Ala Cys Xaa' Thr Gly Cys (

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'' Xaa' Ala Cys Thr Xaa' Gly Cys '' Xaa' Ala Cys Thr Gly Xaa' Cys	' Xaa' Ala Cys Thr	' Ala Xaa' Cys 1	' Ala Xaa' Xaa' Cys Thr	'' Ala Xaa' Cys Xaa' Thr Gly Cys	'' Ala Xaa' Cys Thr Xaa' Gly Cys	' Ala Xaa' Cys Thr	ı' Ala Xaa' Cys Thr Gly Cys Xaa'	ı' Ala Cys Xaa' Thr Gly Cys	' Ala Cys Xaa' Xaa' Thr	' Ala Cys Xaa' Thr	ı' Ala Cys Xaa' Thr Gly Xaa' Cys	' Ala Cys Xaa' Thr	ı' Ala Cys Thr Xaa' Gly Cys	ı' Ala Cys Thr Xaa' Xaa' Gly Cys	' Ala Cys Thr Xaa'	' Ala Cys Thr	ı' Ala Cys Thr Gly Xaa' Cys	' Ala Cys Thr	ı' Ala Cys Thr Gly Xaa' Cys Xaa'	' Ala Cys Thr	' Ala Cys Thr	Xaa' Cys Thr Gly (	Xaa' Xaa' Cys Thr Gly C	Xaa' Xaa' Xaa' Cys Thr	a Xaa' Xaa' Cys Xaa' Thr Gly Cys	a Xaa' Xaa' Cys Thr Xaa' Gly Cys	Xaa' Xaa' Cys Thr	Xaa' Xaa' Cys Thr	Xaa' Cys X	Xaa' Cys Xaa' Xaa' Thr Gly	Xaa' Cys Xaa' Thr Xaa' Gly	ı Xaa' Cys Xaa' Thr Gly Xaa' Cys
Tyr Ala Xaa Tyr Ala Xaa	ryr Ala Xaa	Tyr Ala Xaa	Tyr Ala Xaa	Tyr Ala Xaa	Tyr Ala Xaa	Tyr Ala Xaa	Tyr Ala Xaa	Tyr Ala Xaa	Tyr Ala Xaa	Tyr Ala Xaa	Tyr Ala Xaa	Tyr Ala Xaa	Tyr Ala Xaa	Tyr Ala Xaa	Tyr Ala Xaa	Tyr Ala Xaa	Tyr Ala Xaa	Tyr Ala Xaa	Tyr Ala Xaa	Tyr Ala Xaa	Tyr Ala Xaa	Tyr Ala Ala	Tyr Ala Ala	Tyr Ala Ala	Tyr Ala Ala	Tyr Ala Ala	Tyr Ala Ala	Tyr Ala Ala	Tyr Ala Ala	Tyr Ala Ala	Tyr Ala Ala	Tyr Ala Ala
Pro Gly Thr Cys Gly Glu Ile Cys Ala Xaa' Pro Gly Thr Cys Gly Glu Ile Cys Ala Xaa'	Gly Thr Cys Gly Glu Ile Cys Ala	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys

(SEQID (S	
Pro Gly Thr. Cy8 Gly Glu II e Cy8 Ala Xaa' Tyr Ala Ala Xaa' Cy8 Thr Xaa' Gly Cy8 Pro Gly Thr. Cy8 Gly Glu II e Cy8 Ala Xaa' Tyr Ala Ala Xaa' Cy8 Thr Xaa' Gly Cy8 Pro Gly Thr. Cy8 Gly Glu II e Cy8 Ala Xaa' Tyr Ala Ala Xaa' Cy8 Thr Xaa' Gly Cy8 Pro Gly Thr. Cy8 Gly Glu II e Cy8 Ala Xaa' Tyr Ala Ala Xaa' Cy8 Thr Xaa' Gly Xaa' Cy8 Pro Gly Thr. Cy8 Gly Glu II e Cy8 Ala Xaa' Tyr Ala Ala Xaa' Cy8 Thr Gly Xaa' Cy8 Pro Gly Thr. Cy8 Gly Glu II e Cy8 Ala Xaa' Tyr Ala Ala Xaa' Cy8 Thr Gly Xaa' Cy8 Pro Gly Thr. Cy8 Gly Glu II e Cy8 Ala Xaa' Tyr Ala Ala Xaa' Cy8 Thr Gly Xaa' Cy8 Pro Gly Thr. Cy8 Gly Glu II e Cy8 Ala Xaa' Tyr Ala Ala Xaa' Cy8 Thr Gly Cy8 Pro Gly Thr. Cy8 Gly Glu II e Cy8 Ala Xaa' Tyr Ala Ala Xaa' Cy8 Thr Gly Cy8 Pro Gly Thr. Cy8 Gly Glu II e Cy8 Ala Xaa' Tyr Ala Ala Xaa' Cy8 Thr Gly Cy8 Pro Gly Thr. Cy8 Gly Glu II e Cy8 Ala Xaa' Tyr Ala Ala Cy8 Xaa' Xaa' Thr Gly Cy8 Pro Gly Thr. Cy8 Gly Glu II e Cy8 Ala Xaa' Tyr Ala Ala Cy8 Xaa' Xaa' Thr Gly Cy8 Pro Gly Thr. Cy8 Gly Glu II e Cy8 Ala Xaa' Tyr Ala Ala Cy8 Xaa' Xaa' Thr Gly Cy8 Pro Gly Thr. Cy8 Gly Glu II e Cy8 Ala Xaa' Tyr Ala Ala Cy8 Xaa' Xaa' Thr Gly Cy8 Pro Gly Thr. Cy8 Gly Glu II e Cy8 Ala Xaa' Tyr Ala Ala Cy8 Xaa' Xaa' Thr Gly Cy8 Pro Gly Thr. Cy8 Gly Glu II e Cy8 Ala Xaa' Tyr Ala Ala Cy8 Xaa' Xaa' Thr Gly Cy8 Pro Gly Thr. Cy8 Gly Glu II e Cy8 Ala Xaa' Tyr Ala Ala Cy8 Xaa' Thr Xaa' Thr Gly Cy8 Pro Gly Thr Cy8 Gly Glu II e Cy8 Ala Xaa' Tyr Ala Ala Cy8 Xaa' Thr Xaa' Thr Gly Cy8 Pro Gly Thr Cy8 Gly Glu II e Cy8 Ala Xaa' Tyr Ala Ala Cy8 Xaa' Thr Xaa' Thr Cly Cy8 Pro Gly Thr Cy8 Gly Glu II e Cy8 Ala Xaa' Tyr Ala Ala Cy8 Xaa' Thr Cly Cy8 Xaa' Cy8 Pro Gly Thr Cy8 Gly Glu II e Cy8 Ala Xaa' Tyr Ala Ala Cy8 Xaa' Thr Cly Cy8 Cly Glu II e Cy8 Ala Xaa' Tyr Ala Ala Cy8 Xaa' Thr Cly Cy8 Cly Glu II e Cy8 Ala Xaa' Tyr Ala Ala Cy8 Xaa' Thr Cly Cy8 Cly Glu II e Cy8 Ala Xaa' Tyr Ala Ala Cy8 Xaa' Thr Cly Cy8 Cly Glu II e Cy8 Ala Xaa' Tyr Ala Ala Cy8 Thr Xaa' Cly Cy8 Pro Gly Thr Cy8 Gly Glu II e Cy8 Ala Xaa' Tyr Ala Ala Cy8 Thr Xaa' Cly Cy8 Pro Gly Thr Cy8 Gly Glu II e Cy8 Ala	(sheet 104 of 114)

SEQID NO:

Gly Cys Xaa'

 $\operatorname{Thr}$ 

Thr Gly Xaa'

Ala Ala

Xaa' Xaa'

Xaa'

Xaa'

TyrTyr

Cys

Ile

Glu Glu

Cys

 $\operatorname{Thr}$  $\operatorname{Thr}$ 

 $\mathtt{Gly}$ 

IleIle

G1y

 ${\tt Gly}$ 

GLy

 $\operatorname{Thr}$  $\operatorname{Thr}$  $\operatorname{Thr}$ 

Gly

SEQID NO: SEQID NO SEQID NO SEQID NO SEQID NO SEQID NO

> Cys Cys Cys

Cys Xaa'

Xaa' Xaa Xaa' Xaa' Xaa' Xaa'

Thr Xaa' Gly

Xaa' Cys

Ala

Ala

Thr

Xaa' Xaa'

Ala

Ala

Xaa'

Tyr

I1eIle

Glu

Gly Gly

GLYGlyG1y

 $\operatorname{Thr}$  $\operatorname{Thr}$ 

G1y

Pro

G1y

Glu

Ala

Ala

Xaa

Cys

Xaa' Cys Thr Gly

Xaa' Ala Xaa'

Ala

Xaa'

Ala Ala

Xaa' Xaa' Xaa'

TYr

Cys

Ile Ile

Glu Glu Glu

Gly

Ċys

G1yGLY

Pro Pro

Thr Gly

Cys

Xaa,

Ala

Ala

Xaa' Xaa'

Xaa' Xaa'

SEQID NO:

Gly

Xaa' Ala Cys Thr Xaa'

Ala

Xaa 1

Ala Ala Ala Ala

Xaa'

Tyr

Ile

 $\mathtt{Gly}$ 

Cys

 $\operatorname{Thr}$  $\operatorname{Thr}$  Ile

Glu

 ${\tt GLy}$ G1y

 $\operatorname{Thr}$ 

Xaa'

Xaa'

(SEQID NO:

Xaa' Ala Cys Thr Gly Cys

Cys Thr Gly Cys

Xaa'

Ala Ala Ala

Xaa'

Xaa' Xaa' Xaa 1

Xaa' Xaa' Xaa' Xaa'

Tyr

Cys

Ile Ile

Glu Glu Glu

 $\operatorname{Thr}$ 

Glu

Xaa' Xaa' Ala Cys Thr Ala Xaa' Cys Thr Cys Xaa' Thr

Xaa'

Cys Xaa'

Cys

Ala Ala

Cys Xaa'

 ${\tt Gly}$ Gly

 $\operatorname{Thr}$  $\operatorname{Thr}$  SEQID NO: SEQID NO: SEQID NO SEQID NO

Cys CysCys Cys

SEQID NO:

Xaa

Ala

Ala

Xaa '

Ala

Gly

 $\operatorname{Thr}$ 

Ala

SEQID NO

Cys Cys

Xaa' Gly

 $\operatorname{Th} x$ Thr  $\operatorname{Thr}$  $\operatorname{Thr}$ 

Ala Ala

Ala

Ala

Xaa'

Ala

Ala Ala SEQID NO: (SEQID NO:

SEQID NO: (SEQID NO: SEQID NO:

Cys

SEQID NO: SEQID NO: (SEQID NO: SEQID NO:

Cys Xaa'

Xaa'

Gly Gly

 $\operatorname{Thr}$ 

Ala Ala

Xaa'

Xaa'

Xaa' Xaa'

Xaa' Xaa' Xaa'

> TYTTyrTyr

Ala Ala

Ile

Glu Glu

Thr

G1yGly ${\tt GLy}$ Gly GLyGlyG1y

Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro

G1y

Pro

 $\operatorname{Thr}$  $\operatorname{Thr}$ 

Cys

Xaa'

Xaa' Xaa'

 $\operatorname{Thr}$ 

Ċys

Ala

Xaa'

Ala Ala

Glu Glu

 $\operatorname{Thr}$ 

GlyGLY

 $\operatorname{Thr}$  $\operatorname{Thr}$ 

Gly G1y $_{\rm Gly}$ GLyGlyGly $G_{1}$ y G1yG1y

 $\operatorname{Thr}$ 

 ${\tt GLY}$ 

Ala

Ala Ala Ala Ala Ala

Xaa'

	114)
FIG. 4	(sheet 106 of 114)

SEQID NO:

SEQID NO

Cys

Xaa' Gly

Xaa'

Thr

Cys

Ala

SEQID NO:

Thr Gly Cys Xaa'

SEQID NO

Cys

Xaa' Thr Gly Thr Xaa' Gly

Cys CysCys

Ala Ala Ala Ala Ala

Ala

Xaa 1

Ala

I1e

Glu

Gly G1y

Thr

 $G1\sqrt{}$ 

Gly

Thr

Gly

Pro

SEQID NO: SEQID NO: SEQID NO:

Cys Cys

> $\operatorname{Thr}$  $\operatorname{Thr}$

Xaa '

Ala

Xaa'

Pro 61y Thr Cys 61y Glu IIe Cys Ala Tyr Xaa' Ala Xaa' Ala Cys Thr Xaa' Gly Xaa' Cys (SEQID NO) Pro 61y Thr Cys 61y Glu II e Cys Ala Tyr Xaa' Ala Xaa' Ala Cys Thr Gly Xaa' Cys (SEQID NO) Pro 61y Thr Cys 61y Glu II e Cys Ala Tyr Xaa' Ala Xaa' Ala Cys Thr Gly Xaa' Cys (SEQID NO) Pro 61y Thr Cys 61y Glu II e Cys Ala Tyr Xaa' Ala Xaa' Ala Cys Thr Gly Xaa' Cys Xaa' SEGID NO) Pro 61y Thr Cys 61y Glu II e Cys Ala Tyr Xaa' Ala Xaa' Ala Cys Thr Gly Xaa' Asa' SEGID NO Pro 61y Thr Cys 61y Glu II e Cys Ala Tyr Xaa' Ala Xaa' Ala Cys Thr Gly Cys Xaa' SEGID NO Pro 61y Thr Cys 61y Glu II e Cys Ala Tyr Xaa' Ala Xaa' Ala Cys Thr Gly Cys Xaa' SEGID NO Pro 61y Thr Cys 61y Glu II e Cys Ala Tyr Xaa' Ala Xaa' Ala Cys Thr Gly Cys Xaa' SEGID NO Pro 61y Thr Cys 61y Glu II e Cys Ala Tyr Xaa' Ala Ala Xaa' Xaa' Cys Thr Gly Cys SEGID NO Pro 61y Thr Cys 61y Glu II e Cys Ala Tyr Xaa' Ala Ala Xaa' Xaa' Cys Thr Gly Cys SEGID NO Pro 61y Thr Cys 61y Glu II e Cys Ala Tyr Xaa' Ala Ala Xaa' Xaa' Cys Thr Gly Cys SEGID NO Pro 61y Thr Cys 61y Glu II e Cys Ala Tyr Xaa' Ala Ala Xaa' Xaa' Cys Thr Gly Cys SEGID NO Pro 61y Thr Cys 61y Glu II e Cys Ala Tyr Xaa' Ala Ala Xaa' Xaa' Cys Thr Gly Cys SEGID NO Pro 61y Thr Cys 61y Glu II e Cys Ala Tyr Xaa' Ala Ala Xaa' Xaa' Cys Thr Gly Cys SEGID NO Pro 61y Thr Cys 61y Glu II e Cys Ala Tyr Xaa' Ala Ala Xaa' Xaa' Cys Thr Gly Cys SEGID NO Pro 61y Thr Cys 61y Glu II e Cys Ala Tyr Xaa' Ala Ala Xaa' Xaa' Cys Thr Cly Cys SEGID NO Pro 61y Thr Cys 61y Glu II e Cys Ala Tyr Xaa' Ala Ala Xaa' Xaa' Cys Thr Xaa' Gly Cys SEGID NO Pro 61y Thr Cys 61y Glu II e Cys Ala Tyr Xaa' Ala Ala Xaa' Xaa' Cys Thr Xaa' Gly Cys SEGID NO Pro 61y Thr Cys 61y Glu II e Cys Ala Tyr Xaa' Ala Ala Xaa' Cys Thr Xaa' Thr Cly Cys Xaa' SEGID NO Pro 61y Thr Cys 61y Glu II e Cys Ala Tyr Xaa' Ala Ala Xaa' Cys Thr Xaa' Cys Thr Xaa' Cys Cys Thr Xaa' Cys Thr Xaa' Cys Cys Thr Xaa' Cys Thr Cys Cys Thr Cys Gly Glu II e Cys Ala Tyr Xaa' Ala Ala Xaa' Cys
Gly Thr. Cys Gly Glu IIe Cys Ala Tyr Xaa' Ala Xaa' Ala Cys Thr Xaa' Gly Xaa' Cys Gly Glu IIe Cys Ala Tyr Xaa' Ala Xaa' Ala Cys Thr Xaa' Gly Xaa' Cys Gly Glu IIe Cys Ala Tyr Xaa' Ala Xaa' Ala Cys Thr Gly Xaa' Xaa' Gly Thr. Cys Gly Glu IIe Cys Ala Tyr Xaa' Ala Xaa' Ala Cys Thr Gly Xaa' Cys Gly Thr. Cys Gly Glu IIe Cys Ala Tyr Xaa' Ala Xaa' Ala Cys Thr Gly Xaa' Cys Xaa' Gly Thr. Cys Gly Glu IIe Cys Ala Tyr Xaa' Ala Xaa' Ala Cys Thr Gly Cys Xaa' Cly Thr. Cys Gly Glu IIe Cys Ala Tyr Xaa' Ala Ala Xaa' Cys Thr Gly Cys Xaa' Cys Thr Cly Cys Ala Tyr Xaa' Ala Ala Xaa' Xaa' Cys Thr Gly Cys Ala Tyr Xaa' Ala Ala Xaa' Xaa' Cys Thr Gly Cys Ala Tyr Xaa' Ala Ala Xaa' Xaa' Cys Thr Gly Cys Ala Tyr Xaa' Ala Ala Xaa' Xaa' Cys Thr Gly Cys Gly Thr. Cys Gly Glu IIe Cys Ala Tyr Xaa' Ala Ala Xaa' Xaa' Cys Thr Gly Cys Gly Thr. Cys Gly Glu IIe Cys Ala Tyr Xaa' Ala Ala Xaa' Xaa' Cys Thr Cly Gly Thr. Cys Gly Glu IIe Cys Ala Tyr Xaa' Ala Ala Xaa' Xaa' Cys Thr Cly Gly Thr. Cys Gly Glu IIe Cys Ala Tyr Xaa' Ala Ala Xaa' Xaa' Cys Thr Cly Gly Thr. Cys Gly Glu IIe Cys Ala Tyr Xaa' Ala Ala Xaa' Xaa' Cys Thr Cly Gly Thr. Cys Gly Glu IIe Cys Ala Tyr Xaa' Ala Ala Xaa' Xaa' Cys Thr Cly Cly Xaa' Gly Thr. Cys Gly Glu IIe Cys Ala Tyr Xaa' Ala Ala Xaa' Cys Xaa' Thr Gly Cly Xaa' Gly Thr. Cys Gly Glu IIe Cys Ala Tyr Xaa' Ala Ala Xaa' Cys Xaa' Thr Gly Cly Xaa' Cly Thr. Cys Gly Glu IIe Cys Ala Tyr Xaa' Ala Ala Xaa' Cys Xaa' Thr Gly Cly Xaa' Cly Thr. Cys Gly Glu IIe Cys Ala Tyr Xaa' Ala Ala Xaa' Cys Thr Xaa' Gly Cly Thr. Cys Gly Glu IIe Cys Ala Tyr Xaa' Ala Ala Xaa' Cys Thr Xaa' Gly Cly Thr. Cys Gly Glu IIe Cys Ala Tyr Xaa' Ala Ala Xaa' Cys Thr Xaa' Gly Cly Thr. Cys Gly Glu IIe Cys Ala Tyr Xaa' Ala Ala Xaa' Cys Thr Xaa' Gly Cly Thr. Cys Gly Glu IIe Cys Ala Tyr Xaa' Ala Ala Xaa' Cys Thr Xaa' Gly Cly Thr. Cys Gly Glu IIe Cys Ala Tyr Xaa' Ala Ala Xaa' Cys Thr Xaa' Cys Thr Cly Xaa' Cly Thr. Cys Gly Glu IIe Cys Ala Tyr Xaa' Ala Ala Xaa' Cys Thr Cly Thr. Cys Gly Glu IIe Cys Ala Tyr Xaa' Ala Ala Xaa' Cys Thr Gly Xaa' Cly Thr. Cys Gly Glu IIe Cys Ala Tyr Xaa' Ala Ala Xa

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Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys Gly Glu	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys Gly Glu	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Pro Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Xaa	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	Gly Thr Cys	

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Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Xaa' Cys Xaa' Thr Gly Cys Xaa'	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Xaa' Cys Thr Xaa' Gly Cys	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Xaa' Cys Thr Xaa' Xaa' Gly Cys	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Xaa' Cys Thr Xaa' Gly Xaa' Cys	. Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Xaa' Cys Thr Xaa' Gly Cys Xaa'	. Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Xaa' Cys Thr Gly Xaa' Cys	. Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Xaa' Cys Thr Gly Xaa' Xaa' Cys	. Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Xaa' Cys Thr Gly Xaa' Cys Xaa'	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Xaa' Cys Thr Gly Cys Xaa'	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Xaa' Cys Thr Gly Cys Xaa' Xaa'	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Xaa' Thr Gly Cys	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Xaa' Xaa' Thr Gly Cys	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Xaa' Xaa' Thr Gly Cys	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Xaa' Xaa' Thr Xaa' Gly Cys	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Xaa' Xaa' Thr Gly Xaa' Cys	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Xaa' Xaa' Thr Gly Cys Xaa'	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Xaa' Thr Xaa' Gly Cys	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Xaa' Thr Xaa' Xaa' Gly Cys	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Xaa' Thr Xaa' Gly Xaa' Cys	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Xaa' Thr Xaa' Gly Cys Xaa'	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Xaa' Thr Gly Xaa' Cys	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Xaa' Thr Gly Xaa' Xaa' Cys	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Xaa' Thr Gly Xaa' Cys Xaa'	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Xaa' Thr Gly Cys Xaa'	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Xaa' Thr Gly Cys Xaa' Xaa'	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr Xaa' Gly Cys	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr Xaa' Xaa' Gly Cys	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr Xaa' Xaa' Gly Cys	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr Xaa' Xaa' Gly Xaa' Cys	. Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr Xaa' Xaa' Gly Cys Xaa'	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr Xaa' Gly Xaa' Cys	. Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr Xaa' Gly Xaa' Xaa' Cys	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr Xaa' Gly Xaa' Cys Xaa'	Cys Gly Glu Ile Cys Ala Tyr Ala Xaa' Ala Cys Thr Xaa' Gly Cys Xaa'
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FIG.	(sheet 111 o

Pro 61y Thir Cys Gly Glu Lie Cys Ala Tyr Ala Ala Cys Thir Xaa' Xaa' Xaa' Cay Cys Fro 61y Thir Cys Gly Glu Lie Cys Ala Tyr Ala Ala Cys Thir Xaa' Xaa' Xaa' Xaa' Cay Fro 61y Thir Cys Gly Glu Lie Cys Ala Tyr Ala Ala Cys Thir Xaa' Xaa' Xaa' Cay Fro 61y Thir Cys Gly Glu Lie Cys Ala Tyr Ala Ala Cys Thir Xaa' Xaa' Xaa' Gly Xaa' Cys Fro 61y Thir Cys Gly Glu Lie Cys Ala Tyr Ala Ala Cys Thir Xaa' Xaa' Cly Xaa' Cys Fro 61y Thir Cys Gly Glu Lie Cys Ala Tyr Ala Ala Cys Thir Xaa' Xaa' Gly Xaa' Cys Fro 61y Thir Cys Gly Glu Lie Cys Ala Tyr Ala Ala Cys Thir Xaa' Xaa' Gly Xaa' Cys Fro 61y Thir Cys Gly Glu Lie Cys Ala Tyr Ala Ala Cys Thir Xaa' Xaa' Gly Xaa' Cys Fro 61y Thir Cys Gly Glu Lie Cys Ala Tyr Ala Ala Cys Thir Xaa' Cay Fro 61y Thir Cys Gly Glu Lie Cys Ala Tyr Ala Ala Cys Thir Xaa' Cay Fro 61y Thir Cys Gly Glu Lie Cys Ala Tyr Ala Ala Cys Thir Xaa' Cly Xaa' Cys Fro 61y Thir Cys Gly Glu Lie Cys Ala Tyr Ala Ala Cys Thir Xaa' Gly Xaa' Cys Fro 61y Thir Cys Gly Glu Lie Cys Ala Tyr Ala Ala Cys Thir Xaa' Gly Xaa' Cys Fro 61y Thir Cys Gly Glu Lie Cys Ala Tyr Ala Ala Cys Thir Xaa' Gly Xaa' Cys Fro 61y Thir Cys Gly Glu Lie Cys Ala Tyr Ala Ala Cys Thir Xaa' Gly Xaa' Cys Xaa' Fro 61y Thir Cys Gly Glu Lie Cys Ala Tyr Ala Ala Cys Thir Xaa' Cly Xaa' Cys Xaa' Fro 61y Thir Cys Gly Glu Lie Cys Ala Tyr Ala Ala Cys Thir Xaa' Gly Xaa' Cys Xaa' Fro 61y Thir Cys Gly Glu Lie Cys Ala Tyr Ala Ala Cys Thir Xaa' Gly Xaa' Cys Xaa' Fro 61y Thir Cys Gly Glu Lie Cys Ala Tyr Ala Ala Cys Thir Xaa' Gly Cys Xaa' Xaa' Fro 61y Thir Cys Gly Glu Lie Cys Ala Tyr Ala Ala Cys Thir Xaa' Gly Cys Xaa' Xaa' Fro 61y Thir Cys Gly Glu Lie Cys Ala Tyr Ala Ala Cys Thir Xaa' Cys Xaa' Fro 61y Thir Cys Gly Glu Lie Cys Ala Tyr Ala Ala Cys Thir Xaa' Cys Xaa' Xaa' Fro 61y Thir Cys Gly Glu Lie Cys Ala Tyr Ala Ala Cys Thir Xaa' Cys Xaa' Xaa' Fro 61y Thir Cys Gly Glu Lie Cys Ala Tyr Ala Ala Cys Thir Cys Cys Xaa' Xaa' Fro 61y Thir Cys Gly Glu Lie Cys Ala Tyr Ala Ala Cys Thir Cys Xaa' Xaa' Fro 61y Thir Cys Gly Glu Lie Cys Ala Tyr Ala Ala Cys Thir Gly Xaa' Cys Xaa' Fro 61y Thir Cys Gly G		_	_	<u> </u>	<u> </u>	<u> </u>	<u> </u>	_	<u> </u>	<u> </u>	_	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	_	_	<u> </u>	<u> </u>	_	_	_	<u> </u>	<u> </u>	_	<u> </u>	<u> </u>
Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Xaa' Xaa' Xaa' Gly Cly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Xaa' Xaa' Xaa' Xaa' Gly Cly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Xaa' Xaa' Xaa' Gly Cly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Xaa' Xaa' Gly Cas Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Xaa' Xaa' Gly Cas Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Xaa' Gly Xaa' Cys Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Xaa' Gly Xaa' Cys Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Xaa' Gly Xaa' Cys Xaa' Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Xaa' Gly Xaa' Cys Xaa' Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Xaa' Gly Xaa' Cys Xaa' Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Xaa' Gly Xaa' Cys Xaa' Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Xaa' Xaa' Cys Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Xaa' Xaa' Cys Cly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Xaa' Xaa' Cys Xaa' Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Xaa' Xaa' Cys Xaa' Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Xaa' Xaa' Cys Xaa' Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Xaa' Xaa' Cys Xaa' Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys Xaa' Cys Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys Xaa' Xaa' Cys Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys Xaa' Xaa' Cys Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Cys Gly Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Xaa' Xaa' Xaa' Cys Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Xaa' Xaa' Cys Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Xaa' Xaa' Xaa' Cys Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Xaa' Xaa' Xaa' Cys Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Xaa' Xaa' Xaa' Xaa' Cys Gly Thr Cys			(SEQID NO:	_		_																	_						(SEQID NO:	(SEQID NO:		-
	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Xaa' Gly Cys Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Xaa' Gly	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Xaa' Xaa' Gly	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Xaa' Xaa' Gly Xaa' Cy	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Xaa' Xaa' Gly Cys X	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Xaa' Gly Xaa'	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Xaa' Gly Xaa' Xaa' Cy	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Xaa' Gly Xaa' Cys	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Xaa' Gly Cys	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Xaa' Gly Cys Xaa' Xa	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Xaa' Cy	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Xaa' Xaa'	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Xaa' Xaa' Cy	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Xaa' Xaa' Cys	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Xaa' Cys	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Xaa' Cys Xaa' Xa	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Xaa' Gly Cys Xaa' Xaa' Xa	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa'	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Xaa'	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Xaa' Xaa'	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Xaa' Xaa' Cy	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Xaa' Xaa' Cys	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Xaa' Cys	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Xaa' Cys Xaa' Xa	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Xaa' Cys Xaa' Xaa'	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa'	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Xaa' Xaa'	Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys Xaa' Xaa'

FIG. 4 (sheet 114 of 114)

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PGTCEICAYAACTGC (human) (SEQ ID NO: )	PGTCAEICAYAACTGC (SEQ ID NO:	_
PGTCEICASAACTGC (SEQ ID NO:	PGTCEAICAYAACTGC (SEQ ID NO:	_
PGTCEICATAACTGC (SEQ ID NO:	PGTCEIACAYAACTGC (SEQ ID NO:	~
PGTCEICANAACTGC (SEQ ID NO:	PGTCEICAAYAACTGC (SEQ ID NO:	_
PGTCEICAQAACTGC (SEQ ID NO:	PGICEICAYAAACIGC (SEQ ID NO:	<u> </u>
PGTCEICARAACTGC (SEQ ID NO:	PGTCEICAYAACATGC (SEQ ID NO:	_
PGTCEICAEAACTGC (SEQ ID NO:	PGTCEICAYAACTAGC (SEQ ID NO:	~
PGTCEICADAACTGC (SEQ ID NO:	PGTCEICAYAACTGAC (SEQ ID NO:	~
PGTCEICAGAACTGC (SEQ ID NO:	PGTCAEICAAYAACTGC (SEQ ID NO:	_
PGTCEICAAACTGC (SEQ ID NO:	PGTCEALCAAYAACTGC (SEQ ID NO:	_
PGTCEICAMAACTGC (SEQ ID NO:	PGTCEIACAAYAACTGC (SEQ ID NO:	<u> </u>
PGTCEICAIAACTGC (SEQ ID NO: )	SHTCEICAFAACAGC (SEQ ID NO:	_
PGTCEICALAACTGC (SEQ ID NO:	STCEICAYAACAGC (SEQ ID NO:	<u> </u>
PGTCEICAVAACTGC (SEQ ID NO:	PNTCEICAYAACTGC (SEQ ID NO:	<u> </u>
PGTCEICAHAACTGC (SEQ ID NO:	PDPCEICANAACTGCL (SEQ ID NO:	<u> </u>
PGTCEGICAYAACTGC (SEQ ID NO:	YDECEICMFAACTGC) (SEQ ID NO:	<u> </u>
PGTCEIGCAYAACTGC (SEQ ID NO:	VCEICAFAACTGC (SEQ ID NO:	~
PGTCEICGAYAACTGC (SEQ ID NO: )	PDVCDVCAFAACSGC (SEQ ID NO:	<u> </u>
PGTCEICAGYAACTGC (SEQ ID NO:	LDLCEICAFAACTGC (SEQ ID NO:	_
PGTCEICAYGAACTGC (SEQ ID NO:	VDVCEICAFAACTGC (SEQ ID NO:	~
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